

The University of Alberta

Faculty of Education



Calendar

Forty-third Session

1950-51

Edmonton, Alberta

SASKATCHEWAN DRIVE

OBSERVATION
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UNIVERSITY AVENUE

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UNIVERSITY OF ALBERTA

DIRECTORY OF BUILDINGS AND DEPARTMENTS—APRIL, 1950

NOTE: The following numbers correspond to the reference numbers on the adjacent map.

Aberhart Sanatorium	77	Nurses' Home	75
Accounting	28	Nursing East end of	51
Administrative Offices, 2nd floor of	28	Observatory	68
Agricultural Engineering, West entrance of	27	Obstetrics and Gynaecology, South entrance of	44
Alumni Secretary	28	Ophthalmology and Rhino-Oto-Laryngology, South entrance of	44
Anatomy, 3rd floor of	44	Pathology, East entrance of	44
Animal Houses	52	Pembina Hall, Women's Residence	35
Animal Science, West entrance of	27	Pharmacy and Materia Medica, 3rd floor of	44
Animal Science Farm	99	Philosophy, 2nd floor of	28
Arts Building	28	Psychology	19H
Assiniboia Hall, Men's Residence	20	Physical Education, East entrance of	50
Athabasca Hall, Men's Residence	25	Physics, Main floor of	28
Athletic Field and Track	47	Physiology and Pharmacology, 2nd floor of	44
Bacteriology and Hygiene, East entrance of	44	Plant Science (Cereal Breeding, Plant Pathology)	40
Biochemistry, 3rd floor of	44	Plant Science (Seed Distribution, Forage Crops, Plant Biochemistry, West entrance of	27
Biological Science Building Site	15	Plant Science (Horticulture)	26
Bookstore, Basement of	28	Political Economy, 2nd floor of	37
Botany, 3rd floor of	28	Post Office, Basement of	28
Cafeteria	30	Power Plant	33
Campus Residences of University Staff	1 to 11	Printing Department	37
Chemistry, West end of	44	Provincial Analyst, East entrance of	29
Chemical Engineering, West entrance of	44	Provincial Gasoline Testing Lab.	22
Civil Engineering, East entrance of	29	Prov. Laboratory of Public Health: Temporary	48
Classics, 2nd floor of	28	Permanent	90
Convocation Hall, Main floor of	28	Radio Studio	19H
C.O.T.C. Orderly Room	50	Research Council of Alberta	27
Dairying, North entrance of	29	Rink	62
Dentistry, Main floor of	44	Rutherford Library	39
Division Agricultural Economics	37	St. Joseph's College	51
Dominion Laboratory of Plant Pathology	40	St. Stephen's College	54
Drafting Building	19	Scout Hut	58
Education	80	Soil Survey	19H and 27
Electrical Engineering, North end of	33	Soils, West entrance of	27
English, 2nd floor of	28	South Laboratory Building	29
Entomology, 2nd floor of	44	Staff Residences	55, 56, 57
Extension Department, South end of	33	Storage Building	36
Extension Library, Court House Bldg., 100 St. and 102A Ave.	25	Students' Union	25
Gateway Office	28	Surgery and Clinical Surgery, South entrance of	44
Geology, 3rd floor of	41	Telephone Switch Board, basement	29
Grounds Building	50	Tennis Courts	38
Gymnasium	28	University High School, Public School	80
History, 2nd floor of	29	University Hospital: Main Building	72
Household Economics, North entrance of	29	Children's Wing	74
Industrial Laboratories, East entrance of	27	Maternity Wing	73
Industrial Research Council, East entrance of	42	S.C.R. Pension Office	71
Infirmary	80	Soldiers' Wing (Col. Mewburn Pavilion)	64
Junior Elementary and Intermediate	28	West Laboratory Building	40
Law, 2nd floor of	28	Works Department (Superintendent, Carpenter Shop and Garages)	43
Library, Main floor of	28	Works Dept. (Electrical, Plumbing and Paint Shop)	43
Mathematics, H.S. Building, 84 Ave.	19E	Zoology, 2nd floor of	44
Machine Shop	32	HUTS: Classrooms	19A, 19B, 19C, 19D
Mechanical Engineering Laboratory	44	Machine Shop	19E
Medical Building	44	Soils Laboratory (Agriculture)	19F
Medicine and Clinical Medicine, South entrance of	44	Classroom and Office Building	19G
Mining and Metallurgy, East entrance of	27	Research Council	19H
Modern Languages, 2nd floor of	28		
North Laboratory Building	27		

In case of emergency, notify: Power Plant (33)

For other information: Apply Room 219 or 235, Second Floor of 28.

1950

CALENDAR

1950

JANUARY							FEBRUARY							MARCH							APRIL						
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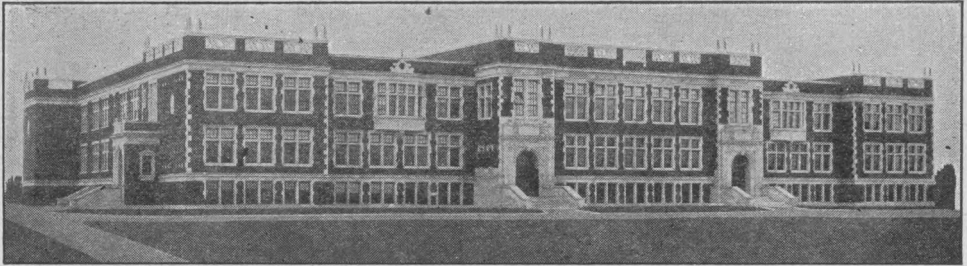
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1951

CALENDAR

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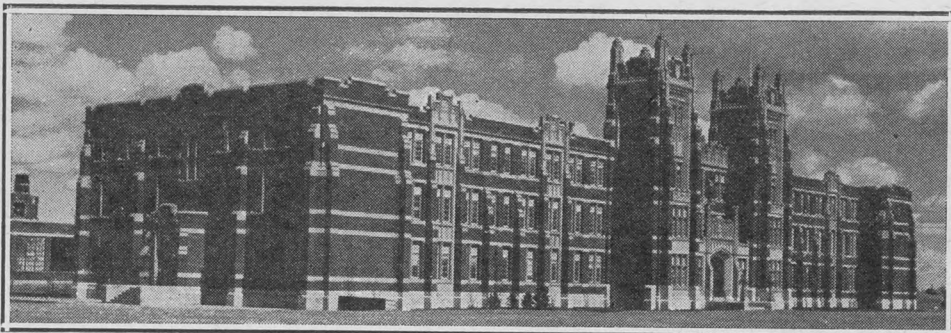
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Faculty of Education Building, Edmonton

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Faculty of Education Building, Calgary

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ACADEMIC CALENDAR

1950-1951

1950—

July—

- Saturday, 1—Forty-fourth academic year begins.
- Monday, 3—Summer session supplemental examinations.
- Monday, 3—9:00 a.m., Registration of summer session students.
- Monday, 3—1:00 p.m., Summer session lectures begin.
- Tuesday, 11—Banff School of Fine Arts opens.

August—

- Saturday, 12—Applications due for August matriculation examinations at the Office of the Chairman of the High School and University Matriculation Examinations Board, Parliament Buildings, Edmonton.
- Tuesday, 15—5:00 p.m., Summer session closes.
- Tuesday, 15—Last day for receiving applications for supplemental examinations.
- Saturday, 19—Banff School of Fine Arts closes.
- Monday, 21—Autumn matriculation examinations begin.

September—

- Monday, 18—Supplemental examinations begin.
- REGISTRATION PERIOD, September 25 to 28:
 - Monday, 25, Tuesday, 26—*New* students in Edmonton (including Temp. Lic.).
 - Wednesday, 27—*Second Session* students.
 - Thursday, 28—*Other students*.
- Monday, 25 to Thursday, 28, inclusive—Physical examination of new students.
- Friday, 29—8:00 a.m., Lectures begin for *all* students registered during previous four days.

October—

- Saturday, 7—Special supplemental examinations.
- Monday, 9—Thanksgiving Day; University buildings closed.
- Saturday, 14—Last day for graduate, extramural and B.D. students to complete registration.
- Monday, 16—Last day for payment of undergraduate fees.
- Saturday, 28—(afternoon) Fall Convocation.

November—

- Saturday, 11—Remembrance Day; lectures and laboratories withdrawn.

December—

- Thursday, 21—First term ends at 5:00 p.m.

1951—**January—**

Wednesday, 3—8:00 a.m., Lectures begin.

Monday, 15—Last day for payment of fees, second term.

March—

Friday, 23—Good Friday; University buildings closed.

April—

Saturday, 7—Last day for submission of theses in competition for special prizes.

Saturday, 7—Last day for submission by graduate students of theses or reports of results of investigations.

Wednesday, 11—Last day of lectures in Education.

Friday, 13—Final examinations begin.

May—

Monday, 7—Charter Day.

Saturday, 12—Notice of intention to be absent from Convocation must be given by 12:00 noon.

Wednesday, 16—Convocation for the conferring of degrees and awarding of prizes.

June—

Saturday, 30—Forty-fourth academic year ends.

Matriculation requirements as published in this calendar are effective as from July 1, 1950, except where otherwise noted.

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

President of the University—Andrew Stewart, B.S.A., M.A.
 Assistant to the President—Walter Hugh Johns, B.A., Ph.D.
 Dean of the Faculty of Arts and Science—John Macdonald, M.A., D.Litt.
 Dean of the Faculty of Law—Wilbur Fee Bowker, B.A., LL.B.
 Dean of the Faculty of Engineering—Robert Macdonald Hardy, B.Sc., M.Sc., D.L.S., A.L.S.
 Dean of the Faculty of Medicine—John William Scott, M.D., C.M., F.R.C.P.(C.), F.A.C.P.
 Dean of the Faculty of Agriculture—Robert David Sinclair, B.S.A., M.S., Ph.D., F.A.I.C.
 Dean of the Faculty of Education—Herbert Edgar Smith, M.A., M.Ed., Ph.D.
 Dean of the Faculty of Dentistry—William Scott Hamilton, L.D.S., D.D.S., F.A.C.D., F.D.S.R.C.S.
 Director of the School of Pharmacy—Mervyn James Huston, M.Sc., Ph.D.
 Director of the School of Nursing—Helen Eileen Marie Penhale, B.Sc., M.A., R.N.
 Director of the School of Household Economics—Mabel Patrick, B.A., M.A.
 Director of the School of Commerce—Andrew Stewart, B.S.A., M.A.
 Director of the Summer Session—George Murray Dunlop, M.A.
 Director of the Banff School of Fine Arts—Donald Cameron, M.Sc.
 Director of the Calgary Branch—Andrew Leo Doucette, B.A., M.A., Ed.D.
 Director of Student Advisory Services—Alexander Joseph Cook, B.Sc., M.A., Ph.D.
 Provost of the University—Harry Theodore Sparby, B.Sc., M.A.
 Adviser to Women Students and Warden of Pembina Hall—Maimie Shaw Simpson, M.Sc., M.Ed.
 Librarian to the University—Marjorie Sherlock, B.A., B.L.S.
 Superintendent of the University Hospital—Angus Cecil McGugan, M.D., D.P.H.
 Registrar of the University—Geoffrey Bradford Taylor, M.Sc.
 Assistant Registrar—Alexander Duncan Cairns, B.A.
 Alumni Secretary—John William Evans Markle, B.A., A.T.C.M.
 Bursar of the University—John MacLean Whidden, B.Com.
 Accountant—Murray Alexander Rousell, B.Com., C.A.
 Purchasing Agent—Edward Frederick Hunter, B.Com.
 Warden of Athabasca Hall—Matthew Henry Scargill, B.A., Ph.D.
 Warden of Assiniboia Hall—Aylmer Arthur Ryan, M.A.

FACULTY COUNCIL

President STEWART	Assistant Professor EATON
Dean SMITH	Assistant Professor ERIKSSON
Professor DOUCETTE	Assistant Professor GOODWIN
Director of Calgary Branch.	Assistant Professor V. E. GRAHAM
Professor LAZERTE	Assistant Professor HASTIE
Professor COOK	Assistant Professor HIGGIN
Professor DUNLOP	Assistant Professor HODGSON
Professor JONES	Assistant Professor MELSNES
Professor McDOUGALL	Assistant Professor MILLAR
Professor Van VLIET	Assistant Professor OLIVER
Professor O. J. WALKER	Assistant Professor REES
Associate Professor BAKER	Assistant Professor SELF
Associate Professor CHITTICK	Assistant Professor STADELBAUER
Associate Professor COUNTS	Assistant Professor B. E. WALKER
Associate Professor FINN	Mr. H. B. BARNETT
Associate Professor GILLES	Miss M. A. CALDWELL
Associate Professor MacGREGOR	Miss J. D. DEY
Associate Professor SHEANE	Mr. J. A. FORBES
Associate Professor SIMPSON	Miss B. M. NEWTON
Associate Professor SPARBY	Miss V. I. MILLER, Secretary, Faculty
Assistant Professor W. F. ALLEN	of Education
Assistant Professor BUXTON	Mr. E. C. ANSLEY, Representative of
Assistant Professor CARD	the Alberta Teachers' Association
Assistant Professor CLARKE	The REGISTRAR.
Assistant Professor DUGGAN	

STAFF

- HERBERT EDGAR SMITH, B.A. (Illinois), M.A., M.Ed. (Alberta), Ph.D. (California), Professor of Education, Dean of the Faculty of Education.
- ANDREW LEO DOUCETTE, M.A. (Alberta), Ed.D. (Stanford), Professor of Education and Director, Calgary Branch, Faculty of Education.
- GEORGE MURRAY DUNLOP, M.A. (Alberta), Professor of Education.
- MILTON EZRA LAZERTE, B.A. (Toronto), M.A., M.Ed., (Alberta), Ph.D. (Chicago), F.R.S.A., Professor of Education and Educational Psychology.
- WILLIAM DEWAR McDOUGALL, M.A. (Alberta), Ed.D. (Columbia), Professor of Education.
- HAROLD STEWART BAKER, B.A. (Toronto), M.A. (Alberta), Ph.D. (Columbia), L.A.B. (Royal Schools), Associate Professor of Education.
- RAE CHITTICK, R.N., B.Sc. (Columbia), M.A. (Stanford), Associate Professor of Education (Calgary).
- HERBERT THOMAS COUTTS, B.A. (Toronto), M.A. (Alberta), Associate Professor of Education.
- THEOPHILUS GEORGE FINN, B.A. (Alberta), M.A. (Stanford), Ed.D. (Stanford), Associate Professor of Education (Calgary).
- JOHN WILLIAM GILLES, M.A., M. Ed. (Alberta), Ed.D. (Stanford), Associate Professor of Education.
- HUGH ALTON MacGREGOR, B.Sc. (Alberta), M.Sc. (Cornell), Associate Professor of Education.
- GEORGE KENNEDY SHEANE, M.A. (Alberta), D.Paed. (Toronto), Associate Professor of Education (Calgary).
- MAIMIE SHAW SIMPSON, M.Sc., M.Ed. (Alberta), Associate Professor of Education and Adviser to Women Students.
- HARRY THEODORE SPARBY, B.Sc., M.A. (Alberta), Associate Professor of Education and Provost.
- EARL WILLIAM BUXTON, B.A., B.Ed. (Alberta), Assistant Professor of Education and Assistant Provost (Calgary).
- BRIGHAM YOUNG CARD, B.Sc., B.Ed. (Alberta), Assistant Professor of Education.
- STANLEY CHARLES CLARKE, B.A., M.A. (Alberta), Ph.D. (Stanford), Assistant Professor of Education.
- LUTHER GOODWIN, B.A., B.Ed. (Alberta), Assistant Professor of Physical Education (Calgary).
- GERTRUDE CORNELIA HIGGIN, B.A. (Montana), L.R.S.M. (London), Assistant Professor of Education (Music).
- WILLIAM ERIC HODGSON, B.A., B.Ed. (Alberta), Assistant Professor of Education.
- HAROLD CLARENCE MELSNESS, B.Sc. (Alberta), Assistant Professor of Education.
- ZELLA JEANNE OLIVER, B.A. (Alberta), M.A. (Columbia), Assistant Professor of Education.
- ROBERT ELLSWORTH REES, B.A., B.Ed. (Alberta), Ph.D. (Northwestern), Assistant Professor of Education.
- HELEN BARBARA STADELBAUER, M.A. (Columbia), Assistant Professor of Education (Art) (Calgary).
- BERNAL ERNEST WALKER, M.A. (Alberta), Assistant Professor of Education.
- HOWARD BYRON BARNETT, A.R.C.T., B.A. (Toronto), Lecturer in Education (Music) (Calgary).
- MURIEL ADELINE CALDWELL, Lecturer in Education for the 1950-51 Session.
- JEAN DOWNIE DEY, Lecturer in Education for the 1950-51 session.
- JOHN ALLISON FORBES, B.Ed. (Alberta), Lecturer in Education (Art).
- BERTHA MORSE NEWTON, B.Sc. in Ed. (Southern California), A.M. (Chicago), Lecturer in Education (Calgary).
- VELMA IRENE MILLER, B.Sc., M.Ed. (Alberta), Secretary, Faculty of Education.

FACULTY OF EDUCATION

The Faculty of Education is organized for the professional training of teachers for elementary, intermediate and senior high school grades, and for graduate study and research in the field of Education. All programs given by the Faculty of Education are available at Edmonton. The first two years of non-specialized programs are offered at the Calgary Branch of the Faculty.

A Board of Teacher Education and Certification representing jointly the Department of Education, the University of Alberta, the Alberta Teachers' Association and the Alberta Trustees' Association serves as a liaison body for the groups it represents. This Board is purely an advisory body. It is authorized to make recommendations to the Minister of Education and to the President of the University respecting the programs of instruction, the estimates of expenditures on these programs, appointments to the staff of the Faculty of Education, and regulations governing the certification of teachers.

In this calendar appear the courses of study administered by the Faculty of Education together with regulations governing these programs and those relating to certification of teachers. Many general regulations, applicable to all faculties of the University have been omitted from this Calendar. These are to be found in the General Section of the University Calendar, which may be obtained from the Registrar's office on request.

Address inquiries to: Dean, Faculty of Education, University of Alberta.

ADMISSION REGULATIONS

1. The age requirements are such that a candidate for certification must have attained the age of eighteen years before he may be authorized to teach in any school. A student registering in the one-year program in 1950-51 must be of the full age of eighteen years before May 1, 1951, if he is to qualify for a temporary license on that date.
2. A student (1) who suffers from poor health or physical handicaps, or (2) whose proficiency in the use of the English language is not adequate for the profession of teaching, or (3) whose achievement in the teacher-training course is unsatisfactory, will not be permitted to proceed with his program in the Faculty of Education.
3. *Matriculation:* For admission to the Faculty of Education one must have a High School Graduation Diploma with at least "B" standing in the following subjects:
 - (a) Algebra 1 or Geometry 1,
 - (b) Physics 1 or Chemistry 1,
 - (c) Biology 1 or Biology 2,*

*Exemption will be given to candidates who present general University matriculation.

- (d) English 3 and Social Studies 3,
- * (e) *Either* Algebra 2 and Chemistry 2,
 or two of French 3, Latin 2 and Music 3,
 or two of French 2, Latin 3 and Music 3,
 or any three Grade XII Department of Education examination sub-
 jects other than English 3 and Social Studies 3 (Music 3 and/or
 Biology 2 will be accepted in this group of three).

It is expected that Division A, B and C options** selected in B.Ed. programs will be sequent to subjects studied in Grade XII. Students may, however, if approval is obtained, include in first-year B.Ed. programs subjects such as Chemistry 1, French 1, Latin 1, and Physics 1 in which Grade XII credit is not held, if these subjects form part of a recommended program of training.

4. *Application for Admission:* Application forms may be obtained from the Office of the Dean of the Faculty of Education. Each student applying for the first time for admission to the Faculty of Education should write the Examinations Branch, Department of Education, Edmonton, requesting that a transcript of his high school credits be forwarded to the Dean of the Faculty of Education. When writing for this he should give his name in full as well as the date and grade in which his last Departmental examinations were written, enclosing a \$1.00 fee for this service.

Credits obtained in the July examinations of 1950 should be submitted as soon as results are available.

5. No person other than a British subject is eligible to receive an Alberta teacher's certificate. Recent amendments to The School Act authorize temporary Alberta certification for certain candidates who, otherwise qualified as teachers, file acceptable evidence that they intend to qualify for Canadian citizenship.
6. "Statement re Age and Citizenship" forms must be completed by applicants for an Alberta teacher's certificate.
7. No definite and final ruling concerning registration can be obtained until all certificates and transcripts of standing have been reviewed by the Committee on Admissions. The Faculty of Education gladly consults with and advises students

*Candidates intending to select B.Ed. options in household economics or industrial arts subjects may, if they wish, submit the following credits in lieu of group (e) above:

Household Economics: Chemistry 2 and an 8-credit option in Home Economics or Chemistry 2, a 4-credit option in Home Economics and one grade XII credit in a foreign language, mathematics or science.

Industrial Arts: Trigonometry and Geometry and an 8-credit option in Industrial Arts or Trigonometry and Geometry, a 4-credit option in Industrial Arts and one grade XII credit in a foreign language, mathematics or science.

For candidates planning to select B.Ed. options in commercial subjects, the following credits *are required* in lieu of group (e) above: Typing 2, Shorthand 2, Office Practice, and Secretarial Training. If deficient in any or all of these subjects, a candidate will be admitted with the credits of group (e) above but will be required to clear his deficiencies before completing his B.Ed. program.

**See Note 1, page 28 and note on page 27.

regarding programs of study, but all decisions are unofficial and tentative until documents have been received and evaluated by the Committee on Admissions.

COURSES AVAILABLE AT EDMONTON AND CALGARY

All programs offered by the Faculty of Education, except the first three years' work prescribed for the B.Ed. in Industrial Arts, are available at Edmonton.

The following programs are available at Calgary:

- (a) The One-Year Program.
- (b) The Standard E Certificate.
- (c) The Standard S Certificate.
- (d) The first three years of the B.Ed. in Industrial Arts.

Calgary students selecting special groups of options such as Fine Arts, Physical Education, etc., may find it necessary to substitute Division A-B-C options for them wherever they occur in first and second years, deferring registration in the special options until later years.

LIVING ACCOMMODATION

Residential accommodation is provided in the University Residence Halls for approximately four hundred and fifty students. Applications for reservations, accompanied by ten dollars (\$10.00) should be forwarded to the Bursar. Reservations will not be held after the respective dates of registration.

Charges for Room and Board will be made at the following rates:

	Single Room	Double Room
Monthly charge	\$57.00	\$54.00
Daily rate (used for fractional periods)	2.00	1.85

Students leaving during the Christmas holidays will receive a rebate of 65c per day for board for each day's absence from December 22 to January 2 inclusive. This amount will be credited to the respective room and board accounts.

Payment of room and board charges must be made on or before the first day of each month.

The University Cafeteria provides a full meal and restaurant service for the convenience of all students from 7:15 a.m. to 10:30 p.m. on weekdays, and from 10:30 a.m. until 7:00 p.m. on Sundays.

The University has a second Cafeteria in the Education Building with hours adapted to the needs of students in the Faculty.

While the University authorities cannot accept responsibility for finding suitable accommodation for students, they are anxious to give whatever assistance they can in the matter. It is obviously desirable that students should make arrangements for accommodation before the opening of the session if possible.

Full particulars concerning living accommodation will be found in the General Section of the University Calendar.

STUDENTS' REDUCED FARE ARRANGEMENTS

Prospective university students should consult their local agents with respect to reduced rail or bus fares available for students travelling from their homes in Canada to the university centre either at Edmonton or Calgary.

FACULTY COLOR

The Faculty of Education color is Royal Blue.

EDUCATION UNDERGRADUATE SOCIETY

The Education Undergraduate Society is a professional organization and a branch of the Alberta Teachers' Association. This means it is expected that (1) students will join the Society and participate in its activities, and (2) there will be regular and prompt attendance at all lectures. In a professional school standing at the end of the year cannot be given on examination marks alone.

ACADEMIC HONORS AND AWARDS

NOTE: The University assumes liability for the payment of fellowships, scholarships, bursaries, prizes and other awards only to the extent that gifts from donors or returns from particular investments for these purposes will permit. Complete details of all awards and of the conditions under which they are conferred will be found in the University Calendar, General Section.

FIRST CLASS STANDING

First Class Standing is awarded to students in the programs detailed below who secure an average of 80% or more on a year's work:

- (i) Intramural students carrying a regular program leading to the B.Ed. degree,
- (ii) Students in candidacy for the B.Ed. degree following a baccalaureate degree. A year's work will be defined as consisting of five major courses carried in regular session, or of six major courses if the work is done partly or wholly in summer sessions or extramurally,
- (iii) Summer session students proceeding to a B.Ed. degree. A year's work will be defined as consisting of six courses at the second year, six at the third year, and five courses at the fourth year level.

FIRST CLASS GENERAL STANDING

To qualify for First Class General Standing students must:

- (i) Secure first class standing in any two of their years, and
- (ii) Secure an average of 80% or more during the last three years of their B.Ed. degree program (two and one-half years for the old high school program).

MEDALS, PRIZES, SCHOLARSHIPS, BURSARIES AND FELLOWSHIPS

NOTE: For matriculation awards, see General Section of the calendar.

Undergraduate Awards

1. *The Faculty of Education Alumni Gold Medal in Education* is offered annually by the graduates in Education to the student who has shown highest general proficiency in the final year of the Bachelor of Education program.
2. *The Board of Governors of the University Scholarship* of the value of \$100.00 is awarded on the basis of the work of the first year in Education provided that an average of not less than 75% be obtained in the work of the year.

3. *The University Scholarships in Education* to the value of \$100 each offered to students in a full program who have completed the first year in the Elementary Route to the degree course in Education. The awards will be made to the three students with the highest average standing; provided that this average does not fall below 75%.
4. *University of Alberta Honor Prizes* — The Board of Governors of the University offer annually a prize to the value of \$50.00:
 - (1) To each student from Alberta high schools entering a degree course in the University with an average standing in the examination units of matriculation of at least 85%.
 - (2) To each undergraduate student in a degree course who, in the work of the preceding year at the University of Alberta, obtained an average standing of at least 85%. This includes students in the graduating year who return the following session for a full year's graduate work taken intramurally.
5. *University of Alberta First Class Standing Prizes*—The Board of Governors of the University offer annually a prize to the value of \$25.00 to each undergraduate student in a degree course, who in the work of the preceding year at the University of Alberta, obtained an average standing from 80% to 84%. This includes students in the graduating year who return the following session for a full year's graduate work taken intramurally.
6. *The John Walker Barnett Memorial Scholarship* — The Provincial Executive of the Alberta Teachers' Association offers annually a scholarship of \$300.00 in honor of the first secretary-treasurer of the Association to the student who has completed his second year in the Faculty of Education and who in the opinion of that Faculty gives evidence of the greatest academic and professional promise and capacity for leadership. This scholarship will be paid when the recipient registers in the third year B.Ed. program of a regular winter session provided that this session's attendance be not postponed more than two years beyond the completion of the second year program.
7. *The Edmonton Jewish Federation Scholarships* of the value of \$100.00 is offered annually to the student who takes the highest standing in the third year of the B.Ed. (in Agric.) or of the general B.Ed. with options in Household Economics. If no suitable candidate is found in either of the above courses, the scholarship will be awarded to the student who takes the highest standing in the third year of any general B.Ed. program.
8. *The First Year Prize of the Education Society of Edmonton*—The Education Society of Edmonton offers annually a prize of \$25.00 to the student completing the first year of a course of studies leading to the Bachelor of Education degree who, in the opinion of the Faculty of Education, gives evidence of greatest academic and professional promise. In making this award the Faculty will consider not only scholastic standing, but also all other factors indicative of professional capacity which it deems significant. The payment of this prize will be contingent upon entrance into the second year of the course for the B.Ed. degree.

9. *The Friends of the University Bursaries in Education*—The Friends of the University have provided two bursaries of \$100.00 each for the session 1950-51 for students who have completed the first year and are entering the second year of the Faculty of Education. The awards will be made on the basis of academic proficiency and of financial need. Applications for these bursaries should be received by the Registrar before June 15.
10. *The Education Book Prize* to the value of \$15.00 each by the 1949 graduating class in the four-year program of the Faculty of Education. This prize will be awarded to the student who has shown the greatest general proficiency and professional promise in the third year of that program.
11. *The Fuller Brush Company Scholarship in Art*—A scholarship of \$200.00 is awarded to the student having the highest standing in either the second year of the Fine Arts pattern (majoring in Art), or the third year of the four-year program in Education (specializing in Art), provided that such a student has at least second class standing and is registered in a full year's program.
12. *The Calgary Section of the National Council of Jewish Women* is providing four \$25.00 prizes in the Department of Fine Arts at the University of Alberta to the students securing the highest standing in Music 51, Music 45, Drama 44, and Art 51, provided that the course is in each case part of a full year's program.

NOTE: For additional awards, both undergraduate and graduate, see General Section. Students of high ability are urged to study the terms of these awards, and, if necessary, to consult the Registrar.

OTHER FORMS OF FINANCIAL ASSISTANCE

Dominion-Provincial Fund

In recent years a limited number of Dominion-Provincial grants or loans have been made to students with good scholastic records who are in need of financial assistance. Students in all faculties are eligible but, in the case of first year students, only those with exceptional Grade XII standing can be granted assistance. Applications may be made to the Registrar at any time, but no grants will be made until after the opening of the session.

Leonard Scholarships

The income of a trust created by the late Lieut.-Col. and Mrs. R. W. Leonard, St. Catharines, Ontario, will be expended in paying part of the college expenses of selected students at several institutions of Canada, including the University of Alberta, for from one to four years. The details of qualification and the procedure of application for these scholarships may be secured by corresponding with the trustees of the Leonard Foundation, the Toronto General Trusts Corporation, Toronto, Ontario, or with the Registrar of the University of Alberta. The last date for receipt of applications is March 31 in any year.

Student Veteran Loan Fund

A student veteran who has completed satisfactorily a year of university studies is eligible to apply for a loan for emergency purposes.

Application should be made to the Dean of the faculty or to the Director of the school in which the student is registered.

R.C.A.F. Benevolent Fund

The Royal Canadian Air Force Benevolent Fund has made provision for loans for the benefit of former R.C.A.F. personnel or their dependents. Information may be obtained from the Bursar.

The P.E.O. Educational Loan Fund

This fund has been established by the P.E.O. Sisterhood for the purpose of assisting young women, properly and satisfactorily recommended and desiring to complete their higher education with a view to becoming self-supporting.

Loans are not made for a longer term than five years. They shall not exceed \$400.00 to any applicant for one year of study or \$800.00 for two or more years of study. The rate of interest is 3%. Since arrangements for loans require considerable time, applications should be placed as early as possible, preferably by Aug. 10.

Further information concerning this loan fund may be secured from the Registrar.

University Women's Club Student Loan Fund

Small loans are available to women students who have completed two years of University work. Loans are interest free for one year after which interest at the rate of 3% per annum will be charged. Applications should be made to Mrs. I. F. Morrison, 11620 Edinboro Road, Edmonton, Convener of the Loan Fund.

FEES

Make all cheques payable at par to "University of Alberta".

The University reserves to itself the right to change these fees from year to year without notice.

Registration is incomplete until fees have been paid, and is subject to cancellation unless payment has been made by the final date according to the regulations as stated in the section, "Payment of Fees" (page 18).

SESSIONAL FEES are set out in two sections, viz.:

General Fees—uniform for all courses and payable in full by all full-time students.

Instruction Fees—which vary for different courses.

FULL-TIME REGULAR STUDENTS

General Fees

	Edmonton	Calgary
Registration	\$ 8.00	\$ 8.00
Library	5.00	5.00
Medical Service	8.00	4.00
Students' Union:		
General	10.50	14.50
Building Fund	10.00
	<hr/>	<hr/>
	\$41.50	\$31.50

Beginning with the 1949-50 academic session the fee of \$5.00 for caution money was discontinued. However, students will be assessed for extraordinary damage to furniture, apparatus, books, etc. Invoices will be submitted when necessary and must be paid before credit will be given for examinations.

INSTRUCTION FEES

B.Ed. Program:

Per session, first and second years	\$115.00
Per session, third and fourth years	130.00

Regulations for Payment of Fees

1. Fees are due and payable immediately after registration. If desired, payment may be made in two instalments, in which case an additional charge of \$3.00 will be added to the second instalment. The first instalment consists of full General fees and half the Instruction fee.
2. Last dates for instalment payments are October 16 and January 15. A penalty of \$2.00 will be charged on any payment after these dates. In addition, if payment has not been made by October 31 for first term fees and January 31 for second term fees, registration will be subject to cancellation and the student will be excluded from classes.

SUMMER SESSION

General Fees

Registration	\$2.00
Library	2.00
Medical Service	1.50
Students' Union: General	1.00
Building Fund	2.00
	<hr/>
	\$8.50

Instruction Fees

*Per course	\$30.00 or \$20.00
Laboratory fee, per course (in Science subjects)	5.00
**Shop Courses (Calgary)	25.00
One-hour lecture courses	15.00

*The University offers a reduced fee of \$20.00 per course to certificated Alberta teachers who are candidates for the B.A., B.Sc., or B.Ed. degree at the University of Alberta or are candidates for permanent certification with a *bona fide* desire to add to their teaching qualifications. Other students will be charged a fee of \$30.00 per course. All course fees are subject to a discount of \$5.00 per course provided that registration and payment of the registration fee of two dollars has been completed on or before April 15th.

**Students in the Industrial Arts courses at Calgary will not be required to pay library, medical service, or Students' Union fees.

Extramural

Registration, per course	\$ 2.00
Library	2.50
Tuition per course, per session	35.00

Yearly Expenses Other Than Fees

The average cost of a year at University exclusive of fees varies from \$500 to \$700.00, various items averaging about as follows:

Board and Room	\$425.00
Books and supplies	40.00
Clothing	100.00
Miscellaneous	90.00

TRANSFER FROM ONE PROGRAM TO ANOTHER

In general, a student may transfer from one training group to any other group at any point in the four-year program, provided he obtains credit in subjects of the new program which were not included in the one completed.

Typical of the many adjustments that must be made are the following:

- (a) A teacher who has completed a one-year teacher-training program may transfer to the second year of the Standard S program after obtaining credit in two approved courses.
- (b) A holder of the Standard E Certificate may be granted a Standard S Certificate upon obtaining credit in three Division A, B, C options and in the practice teaching course prescribed for high school grades.

A candidate may transfer from any other faculty of the University to the Faculty of Education at any point in his program, but if and when he transfers he will be required to obtain extra credits to clear deficiencies in the program already completed. For example, a person commencing a teacher-training program after completing one year of Arts and Science at the University of Alberta, or courses equivalent thereto, may be granted either an Interim Standard E or an Interim Standard S Certificate when he completes satisfactorily a one-year program and one approved summer session program in the Faculty of Education.

EXTRAMURAL STUDY

The privilege of completing certain courses extramurally is extended to M.Ed. candidates and also to B.Ed. candidates who hold a B.A., B.Sc. or B.Com. degree. The courses for which extramural privileges may be granted in 1950-51 are Philosophy 52; Philosophy 104, 108; Education 492, 562, 572B, 594.

Extramural privileges are not granted to undergraduate students.

The following regulations with respect to extramural students are effective:

1. Registration will not be accepted unless accompanied by the registration fee of \$2.00, which is not refundable. Full fees are payable on assessment and if not paid as at November 30, registration will be cancelled.
2. Registration for extramural courses must be completed not later than October 15th.

3. If notice of withdrawal is received by November 30, all fees except the registration fee will be refunded. If notice of withdrawal is received subsequent to November 30, a *pro rata* charge from October 15 is made and the balance refunded.
4. A registration may not be carried over from one session to another session. If a student does not, for any reason other than illness, write his examination at the regular time, all fees are forfeited, and in order to be admitted to another examination in that course he must register in another session and pay the full fees. Deferred final examinations may be granted only on the basis of illness accompanied by a doctor's certificate, and must be written at the time of the next regular University examination period.

DEGREE AND CERTIFICATION PROGRAMS OFFERED IN THE FACULTY OF EDUCATION

The Faculty of Education offers several programs leading to certification or to degrees.

Degree Programs

1. *A Four-year Program Leading to the B.Ed. Degree:* By proper selection of options teachers may qualify as elementary or high school teachers unspecialized in subject-matter fields; or as high school teachers with semi-specialization in commerce, home economics, industrial arts, music or physical education.
2. *A Four-year Program Leading to the B.Ed. in Industrial Arts,* offered for students wishing to specialize as instructors in industrial arts.
3. *A Four-year Program Leading to the B.Ed. in Agriculture,* offered for students wishing to qualify as science teachers with specialist standing in agriculture. Teachers selecting this program are particularly qualified for work in rural and consolidated high schools.
4. *A Four-year Program Leading to the B.Ed. in Physical Education* degree is being offered for the first time in the 1950-51 session.
5. *A Four-year Program Leading to the B.Ed. in Music* degree has been arranged, but its introduction has been postponed for at least one year.
6. *B.Ed. Programs for Candidates holding a Pass or an Honor Degree in the Faculty of Arts and Science:* Graduates from the pass course may qualify for the B.Ed. degree in two years; graduates from honor courses may qualify for the degree in one and one-half years. (See page 38.)
Students holding a B.Ed. degree may qualify for a B.A. or a B.Sc. degree by obtaining credit in six approved courses (see p. 37, calendar of Faculty of Arts and Science).
7. *An M.Ed. Degree Program* for students holding the B.Ed. degree. (See page 39.)

NOTE: Students who present transcripts covering credits obtained at accredited universities will be given such credits in the above programs as may be determined by the Committee on Admissions.

N.B.—Registration: Registration programs approved and signed by the Faculty of Education are “official” and must not be altered. Students who alter programs of study without approval do so at their own risk. Credit cannot be obtained for courses selected by students without approval of the faculty.

Late Registration: After the end of the registration period registration will be permitted only in exceptional circumstances and with the payment of a penalty fee of \$3.00, plus \$1.00 per day. Where possible, application for late registration should be made to the Registrar in advance of the normal registration period.

Certification Programs

Students in the Faculty of Education may qualify for five different types of certificates:

1. *Temporary License* (see page 23).
2. *Interim Standard E* (see page 24).

This two-year program is the one recommended for students wishing to qualify as teachers of elementary school grades. Its completion gives full credit for the first two years of the B.Ed. degree program. Certification is given at the end of the second year.

A second route to the Standard E is as follows:

Candidates who have completed a one-year teacher-training program, may if they hold clear matriculation qualify for the Standard E certificate by obtaining credit in six approved courses. This program may be completed in one intramural year.

3. *Interim Standard S* (see page 25).

Similarly there is a two-year program leading to certification for the high school grades.

4. *Interim Professional Certificate* (see pages 24, 26).
5. *Special Certificates.*

Special certificates are issued by the Department of Education on the recommendation of the Faculty of Education in the following subjects: Art, Commerce, Dramatics, Household Economics, Industrial Arts, Kindergarten-Primary work, Music and Physical Education.

The requirements for the special certificates in these fields are given on pages 58-62.

Regulations Governing Programs

Until notice to the contrary is given, all students who were registered in the Faculty of Education prior to September 1, 1945, have the privilege of completing degree and/or certification requirements under regulations in effect at time of registration.

However, those who have not completed a year's work in the three year B.Ed. program as of January, 1948, must transfer to the new four year B.Ed. program. (See pp. 24-26.)

Student veterans may register now and proceed with their programs under regulations that were in effect at the time of their enlistment.

Other students registering in the Faculty after September 1, 1945, must register in the four-year program and meet current requirements for degrees and certificates.

Regulations Concerning Physical Education

General University regulations require that all first year students must obtain credit in Physical Education.

Note: Students excused by a medical officer are not required to participate in physical exercises, but they are held responsible for all theory and instructional phases of the course.

UNIVERSITY SERVICE TRAINING

All students are referred to the detailed regulations regarding the C.O.T.C., the U.N.T.D., and the R.C.A.F. as set forth in the General Section of the University Calendar and revisions as posted on the bulletin board from time to time.

Examinations

Final examinations are held at the end of each winter, summer or special session. The pass mark in all subjects of both degree and certification programs is 50%.

Supplementals

(a) For students who fail in any course of the autumn-winter session, the University conducts examinations in September of each year; for those failing in any course in the summer session, supplementals are held on the first day of the following summer session. For regulations governing supplemental examinations and appeals, students are referred to the "General Section" of the University Calendar.

(b) Any student, who at the normal time of graduation lacks the requisite number of second-class standings, may apply for a supplemental examination for the purpose of raising a previous mark in any subject of senior grade previously passed, other than one in which pass standing was secured by a supplemental examination. Only one such supplemental examination may be granted in any subject. In no case will an application for such supplemental examination be considered after three years have elapsed from the time the examination was first written.

(However, in the case of a student proceeding to the B.Ed degree by summer session study alone permission may be granted for the writing of special supplemental examinations even though an applicant has not completed all courses prescribed in his degree program.)

(c) Students who fail in practice teaching have no supplemental privileges.

(d) Teachers who, during the regular Supplemental Examination period, are in teaching positions may, with approval, write the supplemental examination at the end of the Summer Session. If an examination in the required subject is on the regular schedule, the fee for the supplemental is \$5.00. If a special examination paper must be prepared, the fee is \$10.00.

(e) Students registered in the Temporary License program who fail one or more December final examinations have the privilege of writing supplementals in

August. Only with special permission of the Dean may any supplemental be written in April at the close of the session.

Appeals

Final examination papers may be re-read on an appeal being made to the Registrar within thirty days after the publication of results. Appeals should be accompanied by a fee of five dollars for each paper. The fee will be returned if the appeal is sustained.

Attendance Requirements

All courses in the Faculty of Education are attendance courses as defined in the General Section of the University Calendar.

TEMPORARY LICENSE PROGRAM

Students holding a high school graduation diploma with "B" standing in English and Social Studies, with or without complete matriculation for the Faculty of Education, may register in a one-year training program leading to the Temporary License*. This certificate is valid for two years and may be extended one year at a time following completion of successive summer programs in the Faculty of Education which either clear matriculation deficiencies or carry credit in the second year of the General B.Ed. program. Upon completing six or seven approved courses a student will qualify for the Standard E or Standard S Certificate respectively, provided he has met the other conditions noted on page 63 of this bulletin.

The Temporary License program is as follows:

- P.E. 100: Health and Physical Education.
- Ed. 105: Personal, Social and Professional Problems.
- Ed. 121: Reading and Language.
- Ed. 127: Mathematics.
- Ed. 129: Science.
- Ed. 138: English.
- Ed. 151: Art.
- Ed. 153: Music.
- Ed. 159: Observation and Practice Teaching.
- Ed. 161: Educational Administration (Grades I to IX), including school law and professional ethics.
- Ed. 172: The Elementary School Child.
- Ed. 205: Social Studies, including community problems and community service.

*On and after September 1, 1951, "B" standing will be required in English, Social Studies and a third Grade XII Department of Education examination subject.

NEW B.ED. PROGRAM (Four Year)

Only students having clear matriculation into the Faculty of Education may register in this program.

ELEMENTARY ROUTE**First Year:**

1. P.E. 100: Health and Physical Education.
2. Education 34 or Music 41, or Ed. 132, or Drama 44.
3. Ed. 172: The Elementary School Child.
4. Ed. 180: Education Method (Grades 1 to 3).
5. Junior English.
6. Science.

Second Year:

1. Ed. 251 (Art), Ed. 253 (Music), or Ed. 255 (Dramatization).
2. Ed. 262: Educational Administration.
3. Ed. 280: Education Method (Grades 4 to 9).
4. Ed. 282: Observation and Student Teaching.
5. Senior English.
6. History.

Third Year:

1. Education 376: Educational Psychology.
2. Philosophy 51 or 54 or 56.
3. Senior Education option.
4. Arts and Science option.*
5. Arts and Science option.*

Fourth Year:

1. Education 492: Philosophy of Education.
2. Senior Arts and Science option.*
3. Senior Arts and Science option.*
4. Senior Arts and Science option.*
5. Senior Arts and Science option.*

***Notes:**

1. The options are to be so chosen that the total program includes at least two courses from each of Groups 2 and 3 below.
2. *Graduation Requirement:* Students must secure second class standing in at least four senior courses in order to qualify for the B.Ed. degree.
3. *Special Certificates:* Students following this program may qualify for not more than two junior special certificates.
4. *General Certification:* Upon successful completion of the first two years of this program students will be recommended for the Standard E Certificate (valid in grades one to nine) and upon successful completion of the first three years for the Professional Certificate (valid in grades one to twelve). Corresponding to each of these certificates is a diploma awarded by the Faculty of Education at Convocation.

Group 1: English-Languages:

Latin 1, 2.
 Classics in English 50, 51.
 English—all courses.
 Old and New Test. 51.
 French 1, 2, 40.
 German 1, 2, 40.
 Russian 1, 40.

Group 3: Mathematics-Science:

Biology 41.
 Botany 1, 50.
 Chemistry 1, 40, 42.
 Entomology 41.
 Genetics 51.
 Geology 1.
 Horticulture 1.
 Mathematics 1, 40, 41, 42, 43, 53, 61.
 Physical Science 41.
 Physics 1, 40.
 Physiology 60.
 Plant Science 40.
 Zoology 1.

Group 2: History-Pol.Ec.:

History 2, 4, 5, 58, 59, 60, 65.
 Pol.Ec. 2, 61, 62, 63, 65.
 Education 314.

Group 4: Special:

Ed. 132, Art 51, Ed. 332, Art 52.
 Drama 44, Ed. 236, Ed. 336, Drama
 51, 52.
 H.Ec. 11, 12, 44, 45, 46.
 Music 41, 45, 51.
 Physical Education.

SECONDARY ROUTE**First Year:**

1. P.E. 100: Health and Physical Education.
2. Education 34 or Music 41, or Ed. 132, or Drama 44.
3. Education 176: The Secondary School Child.
4. Ed. 280: Education Method (Grades 4 to 9).
5. Arts and Science option (in major field).
6. Arts and Science option (in minor field).

Second Year:

1. Ed. 251 (Art), or Ed. 253 (Music), or Ed. 255 (Dramatization).
2. Education 262: Educational Administration.
3. Ed. 380: Education Method (Grades 10 to 12).
4. Ed. 382: Observation and Student Teaching.
5. Arts and Science option (in major field).
6. Arts and Science option (general).

Third Year:

1. Education 376: Educational Psychology.
2. Philosophy 51 or 54 or 56.
3. Senior Education option.
4. Senior Arts and Science option (in major field).
5. Senior Arts and Science option (in minor field).

Fourth Year:

1. Education 492: Philosophy of Education.
2. Senior Arts and Science option (in major or minor field).
3. Senior Arts and Science option (general).

4. Senior Arts and Science option (general).
5. Senior Arts and Science option (general).

Notes:

1. Choice of Options:
 - (a) Students majoring in English must elect English 2.
 - (b) If the major is elected from groups 1 to 6, the minor may be elected from any other group.
 - (c) If the major is elected from groups 7 to 11, the minor must be elected from groups 1 to 6.
 - (d) Student's total program must include at least one course from each of the Division A, B, C courses as listed by the Faculty of Arts and Science. (Philosophy and psychology courses are not acceptable as Division B options.)
2. *Graduation requirement:* Students must secure second class standing in five of the courses of the third and fourth years.
3. *Special Certificates:*
 - (a) Each student may qualify for a Junior Certificate in one of the Fine Arts.
 - (b) Students who elect a major from Groups 1 to 6 can also, if they so choose, qualify for a second junior certificate.
 - (c) Students who elect a major from Groups 7 to 11, will qualify for a senior certificate in addition to the one junior certificate mentioned in (a).
4. *General Certification:* Upon successful completion of the first two years of this program students are recommended for the Standard S certificate (valid in grades four to eleven) and upon successful completion of three years for the Professional Certificate (valid in grades one to twelve). Corresponding to each of these certificates is a diploma awarded by the Faculty of Education at Convocation.

<i>Groups</i>	<i>Number of Courses Constituting a MAJOR</i>
1. English	3
2. Languages: Latin, Greek, Classics in English, French, German, Russian	3-4
3. History and Political Economy; including Sociology.....	3
4. Mathematics	3-4
5. Biological Sciences: Botany, Zoology, Biology, Genetics, Entomology	3-4
6. Physical Sciences: Physics, Chemistry, Physical Science, Geology, Mathematics 53	3-4
7. Fine Arts: Art, Music, Drama	3
8. Household Economics 11, 12, 44, 45, 46	4
9. Commercial Accounting 1, 52, Ed. 248, Com. Law 41	4
10. Physical Education	3
11. Industrial Arts: Ed. 141A-241A, Ed. 142B, Ed. 242C, Ed. 242D	4

Special Program for Certificated Teachers

(Four Year B.Ed. Program)

First Year:

Credit granted on basis of at least seven months' teacher training.

*Transfer Courses:***ELEMENTARY ROUTE:**

None.

SECONDARY ROUTE:

1. English.
2. Fine Arts.

*Second Year:***ELEMENTARY ROUTE:**

1. English.
2. Education 382.
3. Senior English.
4. Science.
5. History.
6. Fine Arts.

SECONDARY ROUTE:

1. Education 380.
2. Education 382.
3. Arts option (in major field).
4. Arts option (in minor field).
5. Arts option (general).

Third and Fourth Years:

At outlined on pages 24, 25.

B.ED. PROGRAM (Four-Year)

This program has been replaced by a new revised B.Ed. program as shown on page 24. Only students registered prior to September 1950 may continue in this program.

In order to provide programs of study suitable for teachers with varying teaching interests, prospective candidates are divided into eight groups. These groups, together with their respective fields of teaching interest, are indicated below:

Group A: Teachers qualifying for the Standard E Certificate (valid in grades 1 to 9).

Group B: Teachers qualifying for the Standard S Certificate (valid in grades 4 to 11) and selecting options in mathematics and science or English, history or languages.

Group C: Teachers selecting options in home economics.

Group D: Teachers selecting options in industrial arts.

Group E: Teachers selecting options in commerce.

Group F: Teachers selecting options in physical education.

Group G: Teachers selecting options in fine arts.

Group H: Teachers selecting options prescribed for the Kindergarten-Primary Certificate.

Group A will include all teachers wishing to work in the elementary and intermediate grades. Groups B to G will be preparing for intermediate and high school teaching. Groups C, D, E, F and G will consist of teachers desiring some specialization in Home Economics, Industrial Arts and other fields as indicated.

Note: Division A options include: English, French, Latin, Classics in English and Fine Arts.

Division B options include: History, Political Economy.

Division C options include: Mathematics, Chemistry, Physics, Biology, Botany, etc.

A student may not select more than five courses from any one department, even though registered in options of routes C to G.

Students who have clear matriculation into the Faculty of Education but who wish to begin work in Mathematics, Chemistry, Physics, French or Latin may register in, and obtain degree credit for, Mathematics 1, Chemistry 1, Physics 1, French 1, or Latin 1. However, since summer session courses in French 1 and Latin 1 are not so intensive as winter session courses, degree credit cannot be given for such courses until sequent courses are successfully completed.

First Year:

1. P.E. 100: Health and Physical Education.
2. Ed. 105: Personal, Social and Professional Problems.
3. Ed. 138: English.
4. Groups A and H: Ed. 152 (Art).
Groups B to G: Ed. 152, or Ed. 154, or Ed. 156.
5. Ed. 176: Educational Psychology.
6. Groups A and H: Ed. 130 (Science).
Groups B to G: One division A, B, C option.
7. Groups A, F and H: Biology 41.
Group C: Chemistry 42.
Others: Division C option.
8. Option (see note at foot of page 28)†
9. Observation and Practice Teaching as assigned.

†Teachers of elementary and junior high school grades may select in the four-year program, options that will entitle them to junior certification in *two* of the following subjects: Art, Music, Drama, Household Economics and Physical Education. Teachers of junior and senior high school grades may, similarly, select options leading to junior certification in *one* of these subjects. See pages 58 to 62 for further details of special certification.)

Note:

1. Courses in psychology and philosophy may not be selected as A, B, C options in the B.Ed. programs.
2. *Selection of Options*—Students should select options in such a way that a patterned program results. Students interested in teaching English, history and foreign languages may, by proper selection of their options, obtain ten to fifteen credits in these subjects. Similarly, students interested in teaching mathematics and science may obtain ten credits in these fields. Students wishing to select options related to the high school courses in animal science and plant science should select Chemistry 42, Bacteriology 1 (half course), Genetics 52 and either Zoology 1 and Biochemistry 50, if interested in animal science, or Botany 1 and Botany 50 if interested in plant science.
3. If students in the Faculty of Education elect a junior course in Political Economy, they should choose Political Economy 2 rather than Political Economy 1. Political Economy 2 is accepted as the prerequisite to Political Economy 61, Political Economy 62, Political Economy 63 and Political Economy 65.

Second Year:

1. Groups A and H, Ed. 228: Mathematics.
Groups B to G: One A, B, C option.

2. Groups A and H, Ed. 222: Reading and Language.
3. Ed. 260: Groups A and H, Modern Classroom practice, grades 1 to 9.
Groups B to G, Science and practice of teaching (grades 4 to 11 inclusive).
Practice teaching as assigned for all groups.
4. Ed. 261: Educational Administration, including school law and professional ethics—
Groups A and H: Grades 1 to 9.
Groups B to G: Grades 4 to 11.
5. Groups A and H, Ed. 154: Music.
Groups B to G: One Division A, B, C option.
6. Philosophy 51: History of Ideas (or approved alternate senior course in philosophy).
7. Option (see note at foot of page 29.)*

Certificated teachers do not follow the second-year program detailed above. For them a special second-year program is arranged.

Special Second Year for Students in First Year in 1949-50:

1. P.E. 100: Health only.
2. Ed. 132, Ed. 34 or Music 41, or Drama 44.
3. Ed. 262: Educational Administration.
4. Ed. 280 (or Ed. 380 if in routes B to G).
5. Ed. 282.
6. Arts option.

Third Year:

1. English 2.
2. Ed. 492: Philosophy of Education.

*Teachers of Group A may select as three of these five options courses that will lead to junior certification in *two* of the special fields: art, commerce, dramatics, home economics, industrial arts, kindergarten-primary, music and physical education. (See pp. 58 to 62.)

Teachers of Group H should select the five options that are prescribed for candidates for the Kindergarten-Primary Certificate, viz. Ed. 124, Ed. 172, Ed. 224, Ed. 324, Ed. 424.

Teachers of Group B will ordinarily select the options in the fields of specialization, i.e. in mathematics and science or in English, history and French. Special options in art, dramatics, etc., may be selected only to the number necessary to qualify for any one of the special junior certificates.

Teachers of Groups C, D, E, F and G will include among these five options those that qualify for senior certification in the respective special fields, i.e.:

- Group C—Chem. 42, H.Ec. 11, H.Ec. 12, H.Ec. 44, H.Ec. 45, H.Ec. 46.
 Group D—Ed. 141A, Ed. 241A, Ed. 142B, Ed. 242C, Ed. 242D.
 Group E—Acctg. 1, Ed. 248, Acctg. 52, Com. Law 41.
 Group F—P.E. 144, Health (Dept. of Physical Education), P.E. 244, P.E. 344.
 Group G—Ed. 132, Art 51, Ed. 332, Art 52, or
 Music 41, Music 51, Music 45, Music 55, Music 56, or
 Drama 44, Ed. 236, Ed. 336.
 Group H—Ed. 124, Ed. 172, Ed. 224, Ed. 324, Ed. 424.

3. Ed. 376: Educational Psychology.
4. Ed. 380: Education Method (Grades 10 to 12).
5. Senior Education option.
6. Option (see note at foot of page 29).*

Fourth Year:

1. One senior option from Divisions A, B, C.
2. One Division B option: A junior course in International Affairs recommended for students of Group A; other students must select a senior course.
3. One Division A, B or C senior option or study in one approved field of primary, elementary, intermediate or secondary education.
- 4 and 5. Two options (see note at foot page 29).

Certification

Students registering in this four-year program must complete all courses of the first two years before qualifying for any certificate. At the end of the second year students of Groups A and H qualify for the Interim Standard E Certificate valid in Grades I to IX; students of Groups B to G inclusive for the Interim Standard S Certificate valid in Grades IV to XI.

Students of Groups A to H inclusive qualify for the Senior Diploma of the Faculty of Education and are recommended for the Interim Professional Certificate valid in Grades I to XII when they have completed three years of the four-year program.

Degree Requirements

Students of all groups (A to H) who complete the four-year program are recommended for the B.Ed. degree. To qualify for the B.Ed. degree candidates must obtain at least second-class standing (65%) in *four* of the following subjects of the third and fourth years: Philosophy 51, Education 376, Education 392, and Division A, B, C options.

Advance Credits for Certificated Teachers

One year's credit in the four-year program is given for one year of teacher training.

A maximum of three credits may be allowed in the four-year general B.Ed. program for courses completed in Department of Education Summer School sessions, 1935-1943 inclusive, one course credit being allowed for every 75 hours of certified attendance. For teachers discharged from the armed forces, such a date earlier than 1935 will be taken as will make full allowance for the applicant's period of service.

Extramural Credits

A maximum of four extramural credits in junior Division A, B, C options will be accepted in this program if obtained at an accredited university.

THREE-YEAR B.ED. PROGRAM

Previous to September 1, 1945, the B.Ed. program was three years in length. Registration in this program is now open to student veterans only. Civilian students who registered in the program before September, 1945, retain the privilege of com-

pleting degree requirements unless their programs have been unduly interrupted. Those who have not completed a year's work in the three year B.Ed. program as of January, 1948, must transfer to the new four year B.Ed. program (see page 24).

Advance Credits

In this program advance credit for two courses is given to certificated teachers. Ordinarily credit for five first-year courses may be obtained by transfer of credits secured extramurally at an approved university. However, only four such credits may be allowed if two credits have been granted for previous teacher training.

In this three-year program no credit is allowed for summer session courses completed with the Department of Education.

Certification

Students completing the work of the first two years are recommended for an Interim Standard S Certificate valid in Grades IV to XI; those completing the three-year program are recommended for the B.Ed. degree and the Interim Professional Certificate valid in Grades I to XII.

Promotion and Graduation Rules

The pass mark is 50% in all subjects. To qualify for the degree a candidate must obtain second-class standing (65%) in any four approved senior courses.

Program of Studies

Students seeking high school certification via the three-year program, select various groupings of subjects, i.e., either (a) mathematics and science, or (b) history and languages, or (c) commerce, or (d) home economics.

First Year:

1. English 2.
2. Phil. 2.
3. An approved junior course from Division B.
- 4 & 5. (a) *Two* courses from Division C in different departments,
or (b) *Two* of French, Latin, History, Pol. Ec. 2.
or (c) Pol. Ec. 1 and Accounting 1.
or (d) Chemistry and H.Ec. 12.

Second Year:

1. Phil. 51 or 54 or approved senior alternate.
2. Ed. 476.
- 3, 4 and 5. (a) *Two* courses from Division C in different departments and *one* course from Division A or B (two of which must be senior courses),
or (b) *Three* of English, French, Latin, History, Pol. Ec. (two of which must be senior courses),
or (c) Accounting 52, and Commercial Law 41 or Senior Pol. Ec. (alternate years), and *one* of English, French, Latin, History.
or (d) Chemistry and H.Ec. 11 and *one* senior English, French, Latin or History.

Third Year:

1. Ed. 380: Education Method (Grades 10 to 12).
2. Ed. 262: Educational Administration,
3. Ed. 492: Philosophy of Education,
4. (a) *One* Senior Division C course,
or (b) *One* Senior English, Latin, French, History course,
or (c) Senior Pol. Ec. or Commercial Law (alternate years),
or (d) Senior H.Ec.

NOTE: (1) Candidates who complete a special two-year program may be recommended for the Interim Standard S Certificate which is a valid license to teach in Grades IV to XI.

- (2) The three-year program of group (b) must include as options, four courses: two in English and two in History and Political Economy.

COMBINED DEGREE PROGRAMS

No registrations in combined degree programs have been accepted since September 1, 1944. Candidates registered before that date may, until otherwise notified, complete programs which they have begun.

The rules governing matriculation, promotion and sequences, in these combined courses are as in the Faculty of Arts and Science, with the exception of the 60% rule governing other combined courses. Sequences may be secured from pairs of senior Arts courses taken in any of the three senior years.

In combined degree programs students are required to obtain second-class standings in six courses, four in the Faculty of Arts and two in the Faculty of Education. The second-class standings in Education courses must be in two of the four subjects: Ed. 460 (now Ed. 280 or Ed. 380), Ed. 462, Ed. 476, Ed. 492.

SPECIAL B.ED. PROGRAMS

Few advance credits can be given certificated teachers in the B.Ed. in Agriculture, in the B.Ed. in Industrial Arts, or in the B.Ed. in Physical Education programs. One or two credits may be allowed for Normal School training. Little credit can be given for courses completed in the 1935-1943 summer sessions unless the courses are in the specialized field of the B.Ed. program for which they are being evaluated.

The first three years of the B.Ed. in Industrial Arts program must be completed at the Calgary Branch of the Faculty of Education where the facilities of the Institute of Technology and Art are available. The fourth year courses of this industrial arts program are given only at the Faculty of Education, Edmonton. All special programs other than the B.Ed. in Industrial Arts are offered only at the Faculty of Education, Edmonton.

In all special programs students may qualify for the Interim Standard S Certificate, valid in Grades IV to XI, at the end of the second year.

B.Ed. (in Agriculture)**First Year:**

- | | |
|--------------------------------|-------------------------------|
| 1. Agricultural Engineering 1; | 5. Entomology 1; |
| 2. Animal Science 1; | 6. Political Economy 7 (2/3); |
| 3. Botany 1; | 7. P.E. 100. |
| 4. English 2; | |

Second Year:

- | | |
|------------------------|---------------------|
| 1. Chemistry 40 or 43; | 4. Education 280; |
| 2. Philosophy 2; | 5. Education 282; |
| 3. Education 262; | 6. Physics 1 or 40. |

Third Year*:

- | | |
|---------------------|--------------------|
| 1. Dairying 1; | 4. Entomology 53; |
| 2. Philosophy 51; | 5. Mathematics 40; |
| 3. Plant Science 1; | 6. Zoology 4 (½). |

Fourth Year*:

- | | |
|------------------------|-------------------|
| 1. Bacteriology 1 (½); | 5. Soils 41 (½); |
| 2. Education 380; | 6. Soils 42 (½); |
| 3. Education 492; | 7. Senior option. |
| 4. Education 476; | |

*Second-class standing must be obtained in four senior full-year courses of the third and fourth years.

While the B.Ed. (in Agriculture) remains the recommended program for teachers wishing to qualify for positions in small country schools offering agricultural options, a different program is recommended for teachers wishing to qualify for positions in agricultural and composite schools. It is recommended that these teachers complete the B.Sc. in Agriculture program and then qualify for the Interim Standard S or the Interim Professional Certificate and B.Ed. degree. The following modifications in the regular program will be made for such candidates:

- (a) In the third and fourth years of the B.Sc. in Agriculture program general options should be selected. To the minimum requirement of 44 units, options from the following list should be added:
- Animal Husbandry 68: Animal Nutrition.
 - Pol. Ec. 68: Agricultural Marketing.
 - Genetics 52.
 - Animal Science 72 or Plant Science 101.
 - Farm and Home Mechanics.
- (b) Two of the five options listed in (a) will be accepted in lieu of two A, B, C options of the B.Ed. program.
- (c) During the year in the Faculty of Education, students may be allowed to register in five courses leaving Farm and Home Mechanics to be completed as a single summer session course if offered at one of the composite or agricultural schools remote from the campus.

- (d) Education 262 will be modified somewhat to meet the needs of teachers of Agriculture. The course will be arranged as follows:
 - Part A*: regular content (condensed).
 - Part B*: rural sociology, adult education and like topics.
 The Faculty of Agriculture will co-operate with the Faculty of Education in providing instructors for this work.
- (e) There will be a separate section of Education 380 for teachers of Agriculture. The Department of Education has agreed to loan to the Faculty of Education an instructor in Agriculture for a period of three or four weeks each year.
- (f) Practice teaching in Education 380 will be conducted for Agriculture students at a centre, such as a composite school, where a practical course in Agriculture is being offered.

B.ED. IN INDUSTRIAL ARTS PROGRAMS

1. Students who complete the first two years of the above program will be recommended for the Interim Standard S Certificate and for the junior certificate in Industrial Arts.
2. Upon completion of the second year of the program and Ed. 342C of the third year candidates who hold a professional certificate valid in Grade XII will be granted a Senior Certificate in Industrial Arts.
3. Upon completion of the four-year program, candidates may qualify for (a) the Senior Diploma, (b) the B.Ed. in Industrial Arts degree, and (c) the Advanced Certificate in Industrial Arts.
4. Candidates may proceed directly from the second to the fourth year of the program detailed below and upon completion of the resulting three year program together with Ed. 342C of the third year qualify for (a) the Senior Diploma and (b) the Senior Certificate in Industrial Arts.
5. Any candidate holding a teacher's certificate carrying Grade XII teaching privileges who completes in an approved training institution a program, which in Industrial Arts subjects, is equivalent to the technical options of the program leading to the B.Ed. in Industrial Arts degree at the University of Alberta (10½ courses), shall be granted an advanced certificate in Industrial Arts.
6. Students who wish to obtain credit in Ed. 142E, Farm and Home Mechanics must have prerequisite credit in two of the following: Woodwork, Metal Work, Electricity, Automotive Mechanics.
7. Second class standing must be obtained in three of the following subjects of the third and fourth years: Phil. 51 (or alternate), Ed. 492, Senior Division A, B, C options.

First Year:

1. P.E. 100: Health and Physical Education.
2. Ed. 176: Educational Psychology including Principles of Education applied to Industrial Arts.
3. English 2:
4. Ed. 239: Science in Industrial Arts, or Ed. 139.
5. Ed. 141A: Mechanical Drawing.

6. Ed. 142B: Woodwork.
7. Ed. 242C: Electricity.
8. Ed. 242D: Metal Work.

Second Year:

1. *One Division A, B, C option.
2. Ed. 280.
3. Ed. 282.
4. Ed. 261: Educational Administration.
5. Ed. 139: Mathematics of Industrial Arts, or Ed. 239.
6. Ed. 241A: Mechanical Drawing.
7. Ed. 242B: Woodwork.
8. Ed. 242F: Auto Mechanics.
9. Ed. 142E: Farm and Home Mechanics.

Third Year:

- 1, 2. *Two Division A, B, C options.
3. Ed. 339: Historical Development of Industrial Arts.
4. Ed. 341B: Woodwork.
5. Ed. 342C: Electricity.
6. Ed. 342D: Metal Work.
7. Ed. 342F: Auto Mechanics.

Fourth Year:

1. Phil. 51 or any approved senior course in Philosophy.
2. Ed. 492: Philosophy of Education.
3. Ed. 380.
- 4, 5. Two senior Division A, B, C options.

*Options in Psychology and Philosophy not accepted.

- NOTES (1) Students who complete the first two years of the above program will be recommended for the interim Standard S Certificate and for the Junior Certificate in Industrial Arts.
- (2) Second-class standing must be obtained in three of the following subjects of the fourth year: Ed. 492, Phil. 51, and A, B, C options.
- (3) Students who can afford to do so, would be well advised to complete the above four-year general program and then add a fifth year of unit shop training leading to certification outlined below.

Special Program of Training for Teachers of Unit Shop Subjects

Graduates of the Faculty of Education who have completed the B.Ed. program of training outlined above qualify primarily as teachers of Industrial Arts in the intermediate schools and as teachers of any Industrial Arts options that are offered in secondary school grades. Other special programs of training are provided for teachers wishing to qualify as unit shop instructors. The regulations governing entrance, training and certification are as follows:

- (1) Candidates registered in the B.Ed. in Industrial Arts program who wish to qualify for the Advanced Specialist Certificate in a Unit Shop subject instead of the Advanced Certificate in Industrial Arts may in the third year of the program substitute three and a half courses in one specialized unit for the three and a half general units normally prescribed in the third year of the general program. The field of specialization may be any one of the following: Mechanical Drawing, Woodwork, Electricity, Metal Work, Automotives, Farm and Home Mechanics.

(NOTE: Students who can afford to do so may wish to complete the four year general program and then add a fifth year of unit shop training.

- (2) A candidate who possesses a Grade XII diploma with matriculation standing as required by the Faculty of Education, and also who holds a certificate of apprenticeship from the Apprenticeship Board of Alberta or other authorized Board under the Province of Alberta, may by successfully completing one year's work in approved courses in the Faculty of Education of the University of Alberta qualify for the interim Standard S Certificate, and the Junior Certificate in a specified Unit Shop subject.

(NOTE: These Certificates carry teaching privileges in Grades IV to XI.)

By successfully completing a further year's work in approved courses at the Faculty of Education he may qualify for the Interim Professional Certificate and the Senior Certificate in a specified Unit Shop subject (both valid Grades IV-XII inclusive).

By completing successfully a third year of training at the Faculty of Education the candidate may qualify for the B.Ed. degree in Industrial Arts.

- (3) A candidate who possesses a grade XII diploma with matriculation standing as required by the Faculty of Education, who has completed an approved two year program at the Institute of Technology and Art in the field of specialization may by completing successfully an approved one-year program of studies in the Faculty of Education qualify for the Interim Standard S Certificate and the Junior Certificate in a specified Unit Shop subject, if and when he has completed three summers' work in Industry (ten months' minimum time).

By successfully completing a further year's work in approved courses at the Faculty of Education he may qualify for the Interim Professional Certificate and the Senior Certificate in a specified Unit Shop subject.

By successfully completing a third year of training at the Faculty of Education the candidate may qualify for the B.Ed. degree in Industrial Arts.

- (4) A candidate who possesses a grade XII diploma, with matriculation standing as required by the Faculty of Education, may qualify for the Bachelor of Education degree, the Interim Professional Certificate, and the Advanced Specialist Certificate in a specified Unit Shop subject as follows:

- (a) Complete the four year program leading to the B.Ed. in Industrial Arts, as modified in the third year for Unit Shop specialization, and
- (b) Complete fifteen months of training in the trade and qualify for a certificate of apprenticeship from the Apprenticeship Board of Alberta.

- (5) A candidate who does not meet exactly the requirements of trade training or the two year training at the Institute of Technology and Art with prescribed summer experience may enroll in the Faculty of Education in candidacy for the junior diploma in technical school subjects if the Evaluation Committee of the Board of Teacher Education and Certification rules that his training is equivalent to that prescribed for other candidates;

Provided only that such recommendation for advance credits is accepted by the Committee on Admissions.

B.Ed. in Physical Education

First Year:

1. Chemistry 42.
2. Philosophy 2.
3. English 2.
4. Zoology 1.
5. Physical Education 102: Elementary School Physical Education.
6. Physical Education 103: Introduction to Physical Education.
7. Physical Education 106: Activity Lab.

Second Year:

1. Philosophy 51, 54, or 56.
2. Physical Education 216: Elementary Anatomy (Human).
3. One option from Division A, B, or C.*
4. Physical Education 202: Health Education.
5. Education 261: Education Administration.
6. Physical Education 201: Equipment Workshop in Physical Education.
7. Physical Education 204: Activity Lab.
8. Physical Education 206: Activity Lab.
9. First Aid Certificate.†

Third Year:

1. Physiology 61.
2. One option sequent to any A, B or C course taken in first or second year.
3. Education 492: Philosophy of Education.
4. Physical Education 304: Activity Lab.
5. Physical Education 306: Activity Lab.
6. Physical Education 307: First Aid and Care of Athletic Injuries.
7. Physical Education 309: Athletic Coaching and Officiating.
8. Physical Education 315: Kinesiology.
9. Physical Education 317: Preventive and Corrective Physical Education.

Notes: *Division A subjects: Languages and Fine Arts.
Division B subjects: History, Political Economy, etc.
Division C subjects: Science, Mathematics.

†Students are responsible for qualification outside of regular academic program.

Fourth Year:

1. Education 380.
2. Education 382.
3. Education 476.
4. Physical Education 401: Organization and Administration of Physical Education.
5. Physical Education 404: Activity Lab.
6. Physical Education 406: Activity Lab.
7. Physical Education 407: Tests and Measurements in Health and Physical Education.
8. Physical Education 410: Community Recreation.
9. Physical Education 419: Current Practices in Health Education.
10. Physical Education 421: Organization and Administration of School Health.

B.Ed. and Certification Programs for Graduates

- Science*
- (1) ~~Education 380~~ (or ~~Education 180~~ or 280): Education Method. *English*
 - (2) ~~Education 382~~ (or ~~Education 282~~): Student Teaching.
 - (3) ~~Education 262: Educational Administration.~~
 - (4) Education 476: Educational Psychology. — *Psychology*
 - (5) An approved senior A, B, C or Education option. — *Phil 2*
 - (6) ~~Psychology 51 or Philosophy 52.~~
 - (7) An approved senior A, B, C or Education option. *(54)*
 - (8) Philosophy 51: History of Ideas (or approved alternate senior philosophy).
 - (9) Education 492: Philosophy of Education.

A.—Candidates holding the B.A., B.Sc., B.Com., B.Sc. in Agric., or B.Sc. in H.Ec. degrees:

Non-certificated students must obtain credit in the subjects indicated in order to qualify for the following certificates:

- (a) Interim Standard S Certificate (or Interim Standard E Certificate): Subjects (1), (2), (3), (4) and (6).
- (b) Interim Professional Certificate: (1), (2), (3), (4), (6), (8) and (9).
- (c) B.Ed. Degree: (1) to (9) inclusive.

Certificated teachers require the following credits for the certificates named below:

- (a) Interim Standard S Certificate (or Interim Standard E Certificate): (1), (2) and (4).
- (b) Interim Professional Certificate: (1), (2), (4), (8) and (9).
- (c) B.Ed. Degree; (1), (2), (4), (5), (7), (8) and (9).

For B. Ed. credit second-class standing must be obtained in four senior courses.

B.—Candidates holding an honor degree from the Faculty of Arts and Science, and M.A. or an M.Sc. degree:

Requirements are the same as for (A) above, except that credit in numbers (5) and (7) will not be required.

For B.Ed. credit second-class standing must be obtained in three senior courses.

The Degree of M.Ed.

Admission

1. *Requirements:* A student may be admitted to the School of Graduate Studies as a candidate for the degree of Master of Education if he
 - (a) holds a Bachelor of Education degree from the University of Alberta or from another recognized university,
 - (b) has a strong undergraduate record throughout the three or four years. The average must be not less than 65% for all senior courses.
2. *Procedure:* A candidate for the M.Ed. degree is required to make application in writing to the Faculty of Education representative on the School of Graduate Studies either before October 15 if he proposes to take courses during the winter session, or before March 15 if he proposes to take courses in the summer session. In his letter he should present evidence of any special abilities, talents, or interests he may have which the training provided in the M.Ed. program would strengthen. He should also indicate in what field or fields he wishes to specialize, and if possible, on what topic he wishes to write the thesis.

The M.Ed. Program

1. If the candidate's application is approved by the Faculty of Education an M.Ed. program will be planned in consultation with the student. This program together with a letter recommending acceptance will then be forwarded to the School of Graduate Studies for final approval.
2. The M.Ed. program consists of six courses and a minor thesis. Ordinarily there will be three senior education courses and three senior courses from the Arts and Science offerings (in one or two fields only). In addition to the ordinary courses, a candidate for a Master's degree may, if the department concerned thinks it necessary, be required to receive special instruction in methods of investigation, preparation of a bibliography and such matters. When a program has been planned and approved no changes may be made without the approval of both the Faculty of Education and the School of Graduate Studies.
3. The thesis topic may be taken in any educational field, subject to the approval of the Faculty of Education. After an investigation has been planned in consultation with a staff advisor, an advisory committee of three members will be appointed and will be responsible for the supervision and reading of the thesis. The thesis itself should constitute a substantial contribution to educational theory or practice and should be presented in triplicate, type-written or printed. Each candidate presenting a thesis is also required by the Faculty of Education to submit in triplicate a 500 to 1500-word abstract which outlines briefly the method of investigation, the experimental findings and the conclusions.

It is assumed that each candidate will be responsible for suggesting his own thesis topic and for submitting a somewhat detailed outline of the one preferred. This outline should state as explicitly as possible (a) a title, (b) a clear statement of the nature and aims of the study, (c) sources of data,

and (d) suggested procedures. The outline should be submitted a year or more in advance of the anticipated date of completion of the thesis. Alternative topics may be submitted at the same time. A sheet of directions and suggestions for the writing of a thesis is available in the Education Office.

4. Candidates are reminded that they will be required to sit for a two or three hour oral examination on thesis and course content at the conclusion of their work.
5. In respect of courses taken with a view to the fulfilment of the regulations for the M.Ed. degree, the pass mark is 65% and no supplemental examinations are permitted.

Registration

1. A student is required to register at the regular registration time for every winter or summer session in which he proposes to take courses or to carry on research or work on his thesis. Completed registration forms should be returned to the Education Office for approval. From there they will be forwarded to the School of Graduate Studies for final acceptance.
2. A student must register and pay the usual registration fee for the session in which he plans to complete his thesis.
3. A student must choose courses which conform to the M.Ed. program which has been approved.

Fees

For fees in the School of Graduate Studies, see the General Section of the University Calendar.

REQUIREMENTS FOR SPECIAL CERTIFICATE FOR PRINCIPALS, SUPERVISORS AND SUPERINTENDENTS

Item 1.—The five-course program listed on page 38 of the 1949-50 Faculty of Education Calendar is amended by offering options as indicated below.

The new five-course program will be:

- (1) Education 494 or 492.
- (2) Education 564 (or Education 322 or 328 or other specialized course in supervision of school subjects).
- (3) Education 308, 478, 578, or an approved course in psychology.
- (4) Education 562 or 566.
- (5) Education 322 or 328 or other specialized course in supervision of school subjects.

Item 2.—An experienced principal or vice-principal proceeding toward this special certificate may be excused from course (1), viz. Education 494 or Education 492; and he may likewise be excused from course (4), viz. Education 566 or Education 562 provided that:

- (a) He has had five years of successful experience as principal of a school of four or more rooms, or
- (b) He has had eight years of successful experience as a vice-principal and/or principal of a school of eight or more rooms.

Item 3.—Teachers who have two degrees may qualify for the special certificate by completing two and a half courses and these two and a half courses may be taken in one summer provided they are available, namely:

Education 564,

Education 307 (a half course),

Education 322 or Education 328 or other Specialized Course in Supervision of School Subjects.

In the above prescription Education 307 is accepted in lieu of Education 478; but if a teacher with two degrees prefers to take Education 478 instead of Education 307 he is at liberty to do so, subject to the proviso that three full courses may not be taken in one summer.

PROGRAM IN GUIDANCE

On the recommendation of the Board of Teacher Education and Certification, the following courses in guidance have been authorized:

- (1) Education 172—Child Psychology.
- (2) Education 208 or 308—Guidance.
- (3) Education 508—Organization of a Guidance Program.
- (4) Education 478 or 578—Tests and Measurements.
- (5) An approved course in Psychology.

Candidates obtaining credit in Education 172 and Education 208 or 308 qualify for the Junior Certificate in Guidance; those with additional credits in Education 508, Education 478 or 578 and Psychology qualify for the Senior Certificate.

DETAILS OF COURSES

EDUCATION

N.B.—All courses in the Faculty of Education are attendance courses.

34. Music. 3 hrs.

Open to Education students without music training adequate for admission to Music 41. Voice production, sight reading, ear training, rudiments of music, music history. Introduction to Form. Instruments of the orchestra.

114. School Libraries. 3 hrs.

Administration and Book Selection.

A study of the school library and its functions, including simplified cataloguing, reference, circulation, and the care and repair of books; with special emphasis on the planning and equipping of the library, principles of book selection, evaluation of books, book talks and story telling, building of a book collection and its coordination with the course of studies.

This course is especially arranged for teachers who are interested in school libraries and should be of great assistance in the discharge of responsibilities connected with any type of library.

121. Reading and Language. 2 hrs.

A survey of the skills and abilities to be developed in reading, literature, language, spelling, handwriting, speech training and choral speech for divisions 1 and 2; methods of development; authorized textbooks and materials available for use.

124. Speech. 3 hrs.

A study of the growth of children's speech in the development of correct sounds, of vocabulary, and of the use of sentences. Emphasis will also be given to the problems of remedial speech with materials and activities as needed for the first years of school.

127. Mathematics. 3 hrs. (half year)

Divisions 1 and 2.

The content and methodology of arithmetic; the basis of methods of teaching arithmetic; interpreting the Program of Studies; developing the program in the classroom; readiness in arithmetic; diagnostic and remedial teaching in arithmetic; individual differences; functional aspects of mathematical instruction; drill; problem solving; desirable outcomes; testing the outcomes of instruction in arithmetic.

129. Science. 3 hrs. (half year).

Divisions 1 and 2.

Science and the integrated program; sources of materials; utilizing community resources; intra and extra classroom activities.

- 132. Art—Principles of Design and Composition.** 3 hrs.
The study and practical application of the principles of composition and picture making, methods of construction in design, and the use of the conventional and abstract forms.
- 138. English.** 3 hrs.
Varied activities to develop the students' oral and written language; a study of poetry, prose and drama to broaden the students' background, to give them a deeper appreciation of the best in literature, and to serve as standards for their own creative writing.
Remedial practice in spelling.
- 139. Mathematics in Industrial Arts.** 3 hrs. (half year).
Logarithms, slide rule. Direct and inverse ratio and proportion applied to gear trains, belt and pulley problems, etc. Mensuration of surface areas and volumes. First and second theorems of Guldinus. Cutting speeds and feeds, tapping-drill sizes, proportions of machine screw threads, tapers, offsets; trigonometry applied to shop problems. Simple, direct and differential indexing, gear tooth calculations, spiral milling problems. Ohm's law, determination of wire sizes, series and parallel circuits, electric power, best arrangement of electric cells. Board measure, bills of materials, calculations on hip rafters, jack rafters, etc. Problems on concrete work, laying of shingles, sheet metal, etc. Surface areas and volumes applied to plumbing and heating problems.
- 141A, 241A. Industrial Arts—Mechanical Drawing (First and Second Years).** 3 hrs. per year.
Use and care of drafting instruments and drafting equipment. Single stroke lettering. Geometric drawing, including angles, polygons, tangents, and ellipses with problems. The making and use of scales. Mechanical and architectural conventions. Conventional drawing of bolts and screws. Simple blueprint reading.
Orthographic projection, including sections and auxiliary views. Cabinet and isometric drawing. Shop sketching. Projection perspective and the plan method of mechanical perspective.
Assembly and detail drawing. Surface development drawing, including shapes based on type forms and triangulation methods. Simple building drawing. Drawing of shop projects involving simple design. Tracing and blueprinting.
- 142B. Industrial Arts—Woodwork.** 6 hrs.
(a) Care, adjustment and repair of hand tools.
(b) Basic tool procedures involving instruction and practice in the use of all the commonly used hand tools.
(c) Wood finishing; application of the elementary types of finishes, paints, stain and varnish, enamel, etc.

- 142E. Industrial Arts—Farm and Home Mechanics.** 6 hrs.
 (a) Planning and beautifying the farm and the farm home.
 (b) Farm machinery and equipment upkeep and repair.
 (c) Farm plumbing and heating systems.
 (d) Concrete work.
 (e) Ropework.
 (f) Rural electrification.
 (g) Forge work.
 Pre-requisite: Credit in two of: 142B, 242C, 242D, 242F.
- 151. Art.** 3 hrs. (half year).
 This is an introductory course which aims to awaken in the student an appreciation of the possibilities of art training in his present social environment as well as its value in elementary school education. The course will offer fundamental art experiences anticipating the obvious needs of teachers. Emphasis will be placed upon drawing, composition, color and the various media suitable for school use.
- 153. Music.** 3 hrs. (half year).
 Brief study of the history of music; choral work; theory equivalent to Theory 4 of the Western Board; sight singing; ear training; familiarity (through listening) with various types of instrumental and vocal music.
- 159. Observation and Practice Teaching.** 1 hr. lect., Practice Teaching.
 As assigned in urban and rural centres.
 Text: *Modern Methods and Techniques of Teaching*, Yoakim and Simpson (Macmillan, 1948).
- 161. Educational Administration.** 3 hrs. (half year).
 A basic course designed for students enrolled in the one year teacher training program. Topics such as the following will receive attention: Alberta school system; Alberta School Law; records and reports; timetables; classroom management.
- 172. The Elementary Child.** 3 hrs.
 An introduction to child and educational psychology.
- 176. The Secondary School Child.** 3 hrs.
 An introduction to adolescent and educational psychology.
- *180. Education Method.** 3 hrs.
 Approved methods of organizing the learning activities of pupils in Grades I to III. Required of first year candidates for the Standard E certificate.
 Note: Synopsis of normal requirements involving methods and practice teaching courses in terms of certificates.
 (a) For the Standard E certificate—Ed. 180 (1st yr.) and Ed. 280 and Ed. 282 (2nd yr.).

- (b) For the Standard S certificate—Ed. 280 (1st yr.) and Ed. 380 and Ed. 282 (2nd yr.).
- (c) For the year 1950-51 students who have completed successfully the practice teaching associated with Ed. 260 may substitute Ed. 382 for Ed. 282.

205. Social Studies and Community Problems. 3 hrs. (half year).

How the elementary and intermediate schools endeavor to satisfy the psychological and social needs of children from 6-15 years of age; the selection, organization, development and evaluation of enterprises; the social studies in the intermediate school; audio-visual aids; library and reading problems in the social studies; the school and the community; and extensive reading in selected phases of the content of the elementary and intermediate programs. There will be observation, participation and teaching in Grades I-IX.

208. Guidance. 3 hrs.
(See Ed. 308.)

224. Language Arts and Number. 3 hrs.

- (a) A study of reading skills in primary grades. This will include the development of reading readiness, the development of vocabulary and comprehension for both oral and silent reading, and the application of the various skills in the activities of the enterprise and in free reading.
- (b) A study of the needs of children in the various fields of language, together with the activities of conversation, dramatization, interpretation of pictures, story-telling, verse speaking, and creative expression in rhyme and story. This will include the collection of suitable material in stories and poems for children's use.
- (c) A study of the development of the sense of number in the primary grades. This will include activities to promote number readiness, and teaching procedures for the development of fundamental skills in number.

236. Elementary Stage Direction. 2 hrs. lect., 2 hrs. lab.

Direction: A study of the problems of play selection, casting, preparation of a script and conduct of rehearsals; techniques involved in grouping, movement, rhythm, mood, emphasis and unity.

Stagecraft: Construction and painting of scenery; lighting; costumes; some reference to design.

239. Science in Industrial Arts. 3 hrs. (half year).

Review of chemical reactions; oxidation, reduction, electrolysis, ionisation, decomposition, polymerisation.

Petroleum: origin, constituents, drilling, production, refining.

Gaseous fuels: tests, combustion; natural gas, manufactured gases.

Liquid fuels: tests, specifications; gasoline, fuel oil, diesel fuel.

Lubricating oils: tests, specifications.

Solid fuels: analysis, classification, combustion; coal, coke, wood, charcoal.
 Metallurgy: purification and extraction of ores; aluminum, iron, copper, alloys.
 Lime, cement, concrete, glass.
 Water Analysis: hard water, softening processes, soap.
 Batteries: voltaic cell, dry cell, storage batteries.
 Paints: lacquers and drying oils.
 Abrasives.
 Students will be required to present brief papers on selected topics.

242B. Industrial Arts—Woodwork. 6 hrs.

- (a) Further development of proficiency in using hand tools.
- (b) Use of woodworking machines of various types.
- (c) Filing and fitting hand saws.
- (d) Wood finishing; further development in the application of various types of finishes (stained, shellaced, rubbed and waxed finishes).

242C. Industrial Arts—Electricity. 6 hrs.

Electron theory; source of electrical energy; electrical units; electric circuits; Ohm's law; circuits; Canadian electric code; electro-magnetism; induction; self-induction; mutual induction; Lenz's law; electrical measuring instruments; direct current motors; direct current generators; battery charging.

242D. Industrial Arts—Metal Work. 6 hrs.

Common metals and their alloys; elementary metallurgy; forging; sheet metal work; machine shop practice; bench work.

242F. Industrial Arts—Automotive Mechanics 6 hrs.

The automobile and its power plant; general construction of the automobile; auxiliary systems; fuel, carburetion, lubricating, cooling; clutch and gear box; rear axles; drive shafts and universal joints; front axles and steering gears; brakes; miscellaneous.

248. Office Training. 3 hrs.

- (a) Office practice. Study of forms used in everyday business, such as cheques, notes, drafts, invoices, statements. Study of banking, communication services, shipping services and transportation.
- (b) Correspondence. Letters of application, introduction, recommendation, etc.
- (c) Filing.

251. Art. 3 hrs. (half year).

This is an introductory course which aims to awaken in the student an appreciation of the possibilities of art training in his present social environment as well as its value in elementary school education. The course will offer fundamental art experiences, anticipating the obvious needs of teachers. Emphasis will be placed upon drawing, composition, color and the various media suitable for school use.

- 253. Music.** 3 hrs. (half year).
Brief study of the history of music; choral work; theory equivalent to Theory 4 of the Western Board; sight singing; ear training; familiarity (through listening) with various types of instrumental and vocal music.
- 255. Speech and Dramatization.** 3 hrs. (half year).
A basic course in drama and dramatization for the schools. Classroom, stage and workshop techniques in the theatre arts. Practical laboratory work is required of all registrants.
- 261. Educational Administration.** 1½ hrs.
Administration of junior and senior high school grades.
(Taken as the first half of Education 262.)
- 262. Educational Administration.** 3 hrs.
A basic course in educational administration dealing with topics of special significance to the classroom teacher. Some of the topics are: The Alberta School System, School Law, Classroom Management, Records and Reports, Extra-Curricular Activities.
- 272. Child Psychology for Teachers of Opportunity Rooms.** 3 hrs.
This course is concerned with the psychology of subnormal and atypical children. Emphasis will be given to the organization and equipment of the Opportunity Room and the pedagogical principles peculiar to this instructional situation.
- *280. Education Method.** 5 hrs.
Approved methods of organizing the learning activities of pupils in Grades IV to IX. Required of second year candidates for the Standard E certificate, and required of first year candidates for the Standard S certificate.
- *282. Student Teaching.**
In their second year all students in the regular B.Ed. program will devote all the afternoon periods for one term to practice teaching in assigned classrooms.
- 308. Guidance and Mental Hygiene.** 3 hrs.
Basic principles of guidance. Introduction to tests and measures. Case studies. Records. Principles of mental hygiene.
- 312. Audio-Visual Aids.** 3 hrs.
Theory of audio-visual aids; types of aids available for instructional purposes; principles and techniques of teaching with such aids; examination and preparation of audio-visual aids; experience in the operation and care of specialized equipment.

*See footnote, page 44.

- 314. Sociology.** 3 hrs.
An introduction to the history and methods of sociology. The social group, culture and personalit; human ecology; institutions; social interaction, change and control; social problems. Implications for democracy and education.
Text-book: Dawson and Gettys: *An Introduction to Sociology*, 3rd edition, 1948. The Ronald Press Company, New York.
- 322. The Psychology and Supervision of Reading.** 3 hrs.
Individual differences with reference to reading, the nature of reading, reading readiness, the mechanics of reading, materials for reading, oral and silent reading, informal diagnosis, the use of standardized tests in reading, remedial programs, the relationship between visual defects and learning to read, the use of vision tests, concepts of supervision.
- 324. Expressive Activities.** 3 hrs.
A study of the various fields of expression necessary for child development. This will include activities in music, in art, in rhythmic work, in play, as well as in the development of skills in construction and art.
- 328. Psychology and Supervision of Arithmetic.** 3 hrs.
The course deals with the nature of number thinking, how it developed into the systematic subject of arithmetic, what it requires of pupils to acquire it, the successes and failures of pupils, and the responsibilities of teachers and supervisors as directors of the learning activities of pupils.
- 332. Principles of Design and Pictorial Composition.** 3 hrs.; labs.
This includes the practice of draughtsmanship and elementary painting, the study of illustration, and picture making in various media.
- 336. The Actor's Work on his role.** 3 hrs., 2 hrs. speech lab.
Prerequisite: Ed. 136.
(a) Acting: Theoretical and practical. Problems connected with preparing the script, background, research, characterization, internal and external action, and make-up. Short scenes will be prepared and at least one full production.
(b) Speech: Further training in voice production, with special emphasis on blank verse, classical comedy, dialect and choral speech.
- 339. Historical Development of the Industrial Arts.** 3 hrs. (half year).
To be outlined later.
- 341B. Industrial Arts—Woodwork.** 6 hrs. (half year).
(a) Maintenance work (shop and equipment); (b) Refinishing; (c) Building construction.

- 342C. Industrial Arts—Electricity.** 6 hrs.
Principles of alternating currents; single-phase induction motors; rectifiers; telephones; electronics; electro-magnetic waves; transformers.
- 342D. Industrial Arts—Metal Work.** 6 hrs.
Continuation of 242D.
- 342F. Industrial Arts—Automotive Mechanics 2.** 6 hrs.
Electric circuits of the automobile; battery ignition; lead-acid storage batteries; generator, starting motor, lighting, horn and accessory circuits.
- 372. The Psychology and Education of Exceptional Children.** 3 hrs.
A survey of the psychology and education of the maladjusted or problem child, the epileptic and nervous child, the child of low vitality, the child with defective vision or hearing, the crippled child and the bright child. Organization, administration and equipping of these classes, and the occupational outlets for handicapped children.
Practice in curriculum writing for the mentally retarded; the use of eye, ear and voice testing equipment; the clinical administration and scoring of achievement, diagnostic and mental tests for exceptional children; visits to institutions, classrooms and clinics; and the viewing of moving pictures showing current procedures in the education of exceptional children.
- 374. Basic Principles of Guidance, Supervision and Administration.** 3 hrs.
Analysis of problems and review of literature in these fields.
- 376. Educational Psychology.** 3 hrs.
(a) Psychology of Learning, (b) Psychology of School Subjects, (c) Personality Development, (d) Statistics applied to educational data.
Pre-requisite: Philosophy 2, Psychology 51 or Normal School Psychology.
- *380. Education Method.** 3 hrs.
Subject matter organization and method for the senior high school grades. Required in their second year of all candidates for the Standard S certificate, who will elect *two* of the following fields of study, viz., English, Mathematics, Science, French, Commerce, Household Economics, Industrial Arts, Agriculture, Social Studies.
- *382. Student Teaching.** 3 hrs.
Candidates for the Standard E or Standard S certificate who hold a B.A., B.Sc., or equivalent degree, and who have had one or more years of teaching experience, may elect Ed. 382 in place of Ed. 282.
For the year 1950-51 students who are entering upon the third year of the B.Ed. program and who have completed successfully the practice teaching of the second year associated with Ed. 260 may similarly elect Ed. 382 in place of Ed. 282.

*See footnote, p. 44.

Candidates electing this course must arrange their forenoon timetables so as to allow time for three hours of practice teaching per week, throughout the year. Individual assignments will be made.

- 392. Philosophy of Education** (see Education 492).
- 408. Tests, Measurements and Elementary Statistics.** 3 hrs.
- 424. Diagnostic and Remedial Program.** 3 hrs.
A study of pre-school children. This will include the administration of intelligence tests, readiness tests, and reading tests, as well as the development of readiness programs.
- 436. Children's Theatre.**
(Not offered 1950-51.)
- 475. Psychology of Learning (B.Sc. Nursing).** 3 hrs. (1st term).
Analysis of learning process; psychology of skills, perception, memory, reasoning and emotion.
- 476. Educational Psychology.** 3 hrs.
(a) Psychology of Learning, (b) Psychology of School Subjects, (c) Personality Development, (d) Statistics applied to educational data.
Pre-requisite: Philosophy 2, Psychology 51 or Normal School Psychology.
- 478. Tests and Measurements** (see Ed. 578). 3 hrs.
- 492. (392). Philosophy of Education.** 3 hrs.
Studies in the Philosophy of Education will be closely associated (1) with a study of the educational classics, and (2) with a survey of modern educational practices in various countries: Europe, America and Australia.
Pre-requisite: Philosophy 51, 52 or 54 (Phil. 56 may be substituted by Roman Catholic students).
- 494. Principles and Practices of the School Program.** 3 hrs.
(Grades I to XII.)
The content of this course is to remain somewhat flexible so that individual needs of teachers registered in the course may be recognized.
- 508. Guidance.** 3 hrs.
(a) Counselling procedure.
(b) Organization and administration of a guidance program.
- 536. Drama.**
(Not offered 1950-51.)
- 562. Problems in Educational Administration.** 3 hrs.
A general survey of the field of educational administration, accompanied by special study and discussion of selected problems. Topics such as the following will receive attention: Democracy in School Administration; In-Service Training of Teachers; The School Plant; Educational Finance; Curriculum Problems.
Text-book: Reeder, W. G., *The Fundamentals of Public School Administration* (Revised edition).

- 564. Office Management, Record Keeping, Pupil Accounting.** 3 hrs.
(Not offered 1950-51.)

- 566. The School Plant and Educational Finance.** 3 hrs.
A course for teachers who as principals or vice-principals have had at least two years' experience in school administration and who wish to broaden their professional training in anticipation of further work in this field.

- 572A. Child Psychology.** 3 hrs.
A survey of child growth, development, and behavior with a view to arriving at a useful description of the characteristics of children of pre-school and elementary school ages.

- 572B. Psychology of Adolescence.** 3 hrs.
A survey of adolescent growth, development, preoccupations, and behavior with a view to arriving at a useful description of the characteristics of children of junior and senior high school ages.

- 576. Educational Psychology—Advanced Course.** 3 hrs.
(a) Methodology in Educational Research, (b) Simple Research Statistics, (c) The Testing Movement, (d) Intelligence Testing, (e) Aptitudes and their measurement, (f) Psychology of the Elementary and Secondary School Subjects, (g) Measurement of Adjustment.
Pre-requisite: Education 376.
Pre-requisite or co-requisite: Mathematics 42.

- 578. Tests and Measurements.** 3 hrs.
This course is designed to cover the elementary statistics of testing, measurement and research. Research; Testing and Measurement; Intelligence Testing; Aptitude Testing; Personality Testing.
Pre-requisite or co-requisite: Math. 42 or 52.

- 594. History of Education.** 3 hrs.
(a) History of Education from the Greeks to Modern Times, placing emphasis on great figures and major trends.
(b) Comparative—The History of modern education in Canada, Britain, America, France, Germany, Denmark and Russia.
(c) Great Issues in Education—The influence of political, economic, social and religious institutions on education. Theories of the role of education in the modern state. Philosophy and Education. Psychology and Education.

FINE ARTS

- Art 51—Art History and Appreciation.** 3 hrs.
A general survey of architecture, painting, sculpture, and minor arts in the following periods: Primitive, Egyptian, Greek, Etruscan, Roman, Romanesque, Byzantine, Celtic, and Italian Renaissance. Analysis of compositions by the great masters of the various schools of painting.

Art 52—Art History and Appreciation.

3 hrs.

Survey of Art in Europe from Renaissance to modern times; Analysis of Architecture, Sculpture and Painting and Graphic Arts of the following periods: Flanders and Germany, 14th to 16th centuries; Spanish, 15th to 18th centuries; Dutch, English and French, 16th to 19th centuries. Modern Schools, French, English, American and Canadian, etc.

Drama 44—Fundamentals of Acting.

3 hrs. lect., 2 hrs. speech lab.

Acting: Practical and theoretical by means of improvisations and discussions.

This course emphasizes the relationship between the stage performance and real life, between the theatre and the other arts. It is concerned with developing the basic tools of the actor: imagination, sense memory, justification, voluntary attention, internal action, stage truth, etc.

Speech: Fundamentals of good speech. Correction of faults.

Music 41—Elementary Choral Technique and General Musical**Knowledge.**

2 hrs. lect., 2-3 hrs. lab.

Elementary Theory and Practice of Singing, Choral Technique and Interpretation, Sight-singing and Ear-training. Outline of history of choral music of certain types. Introduction to form and to instruments of the orchestra. Some work in elementary harmony and melody-making. Other subjects connected with the foregoing. Assignments include one hour weekly of prescribed listening: records and scores are provided and the listening room is reserved at various times for small groups. Weekly reading will be assigned, part of it related to the listening.

Theory: The student will be required in or before February (of the session in which the course is taken), to pass an elementary examination in notation: Theory V of the Western Board of Music (without extra fee) with 80% standing or more; or to offer its equivalent.

*Laboratory: Approved choral or "appreciation hour" laboratory; thesis, composition or other approved subjects, 1-2 hours.

Text-books: Staton, *Sweet Singing in the Choir*; Jacob, *How to Read a Score*; Scholes, *Columbia History of Music I-IV*; other texts as assigned.

Music 45—Elementary Harmony and Counterpoint.

3 hrs.; labs.

A. B. CRIGHTON.

Melody making, Harmony and part-writing in two, three and four parts, in XVIIIth and XIXth century style. Diatonic harmony, including dominant and secondary dissonances up to the 13th. Unessential notes of various kinds. Modulation. Resolutions of Chromatic chords. Technique of writing for voices and for keyboard. Use of the C clefs. First steps in key-

*Probably the choral laboratory only may be offered in summer sessions, but in regular sessions a student taking two music courses *must* take two different Music Laboratories.

board harmony. Ear training. Other matters connected with the above subjects. Audition, analysis and imitation of suitable models. Assigned reading. Lectures: 3 hours.

*Laboratory: Approved choral or "Appreciation Hour" laboratory, theses, composition or other approved subjects, 1-2 hrs.

Text-books: Macpherson, *Melody and Harmony* (parts I, II and III); Scholes, *The Beginner's Guide to Harmony*; Bach, *371 and 69 Chorales* (ed. Reimenschneider); other texts to be assigned.

Music 51—Choral Technique and Musical Criticism.

2 hrs. lect., 2-3 hrs. lab.

R. S. EATON AND A. B. CRIGHTON.

Choral Technique—theory of voice production, choir-training and interpretation. Use may be made of phonetic, acoustical, physiological, psychological and other data. Cause and cure of common faults. Music interpretation in general. Theory of interpretation of words and music. Reference will be made to the history of choral music.

Text-books: Scholes, *Listener's History of Music*, I, II, III; Staton, *Sweet Singing in the Choir*.

Elementary Aesthetics and Musical Criticism.

Instruments of the Orchestra: Appearance, mechanism, range, capabilities, tone-quality, blending.

Constituents of Music: Pitch, quality, harmony, rhythm, dynamics. Sensuous, emotional and intellectual effects of music. History of Music. The dating and evaluation of musical works presented in sound. Illustrations will be given by sound-films, records and other means.

Form in Music: Prescribed listening and reading on the same lines as in Music 41.

Text-books: Colles, *Growth of Music I, II, III*; Jacob, *Orchestral Technique*; Macpherson, *Form in Music*.

Music Laboratory: *Approved Choral or "Appreciation Hour" laboratory, or other approved projects.

Prerequisites: Music 41 or equivalent.

*Probably the choral laboratory only may be offered in summer sessions, but in regular sessions a student taking two music courses *must* take two different Music Laboratories.

HOUSEHOLD ECONOMICS

- 11. Foods.** 3 hrs. lect., 3 hrs. lab.
An elementary study of the composition and nutritive value of foods, with laboratory practice in food preparation, meal planning and service.
Pre-requisite or co-requisite: Chemistry 42.
- 12. Textiles and Clothing.** 3 hrs. lect., 3 hrs. lab.
(a) *Textiles*—A study of the composition, physical properties and manufacture of fabrics, and the influence of these on selection and on methods of cleaning.
(b) *Clothing*:
Selection—a study of the principles of design in relation to dress. A study of the selection of clothing in relation to the individual and the environment.
Construction—the construction of various types of garments from flat pattern designs and commercial patterns.
- 44. Home Management.** 3 hrs. lect., 3 hrs. lab.
The principles of home management and their application in the fields of housekeeping, child care, family relationships, household finance. Practical laboratory assignments.
Pre-requisites: H.Ec. 11 and 12.
- 45. Color and Design.** 3 hrs. lect., 3 hrs. lab.
A study of the principles of color and design, and the application of these principles to art craft and interior decoration.
Pre-requisites: H.Ec. 11 and 12.
- 46. Advanced Clothing and Special Problems in Household Economics.** 3 hrs. lect., 3 hrs. lab.
Pre-requisites: H.Ec. 11, 12, 44 and 45.

PHYSICAL EDUCATION**P.E. 106, 204, 206, 304, 306, 404, 406—Physical Education Activities.**

4 hrs. lab.

M. L. VAN VLIET AND STAFF.

The theory and practice of physical education designed to develop skill in, and an understanding of, the activities considered most valuable for schools and community recreation. The following activities are included:

Individual and Dual Activities:

Badminton
Tennis
Handball (men only)
Archery
Golf
Boxing (men only)
Wrestling (men only)
Track and Field
Skating

Team Games:

Volleyball
Basketball
Soccer
Speedball
Ice hockey (men only)
Softball
Baseball (men only)
Football (men only)

Dance:

Elementary Rhythms
Social
Folk
Modern (women only)

Gymnastics:

Tumbling
Apparatus (men only)
Free Exercises
Body Dynamics

Aquatics:

Elementary Swimming
Intermediate Swimming
Advanced Swimming
Life Saving and Water Safety
Diving

P.E. 100—Health and Physical Education.

3 hrs.

Interpretation of the Course of Studies for the elementary and intermediate schools. Consideration of health of pupils and teacher. Principles of healthful living.

Also an introduction to the theory and practice of physical education. Activities will include: story plays, rhythmical exercises, rhythms, games of low organization, simple team games, self-testing stunts, folk and group dancing, individual athletic events, tumbling and pyramid building.

Health and Physical Education will be taught separately as half courses and marks recorded separately.

102. Elementary School Physical Education.

1 hr. lect., 2 hrs. lab.

A. W. ERIKSSON.

The theory and practice of physical education activities in elementary schools. Activities will include: story plays, rhythmical exercises, rhythms, games of low organization, simple team games, self-testing stunts, folk and group dancing, individual athletic events, tumbling and pyramid building.

Text-book: Neilson and Van Hagen, *Physical Education for Elementary Schools*.

103. Introduction to Physical Education. 2 hr. lect.

M. L. VAN VLIET.

A survey of the field of physical education with emphasis on factual information, directed toward the development of a scientific program of physical education. This course will include a brief study of the history of physical education as well as underlying philosophies.

Text-books: Nixon and Cousins, *Introduction to Physical Education*; Williams, *Principles of Physical Education*.

201. Equipment Workshop in Physical Education. 1 hr. lect., 2 hr. lab.

A. W. ERIKSSON.

Experience in making, designing and repairing equipment. Attention is given to equipment problems in both school physical education and community recreation with the main emphasis on rural situations.

216. Human Anatomy. 2 hr. lect., 2 hr. lab.

H. J. McLACHLIN.

Gross anatomy; the skeletal and muscular structure, the circulatory, respiratory, digestive and neural systems and their functioning in activities related to physical education.

Text-book: Bowen and Stone, *Applied Anatomy and Kinesiology*.

307. First Aid and Care of Athletic Injuries. 1 hr. lect., 2 hr. lab.

A. W. ERIKSSON.

Advanced first aid with practical experience in massage, elementary physiotherapy and prevention and care of athletic injuries.

309. Athletic Coaching and Officiating. 3 hr. lect.

M. L. VAN VLIET.

Theory and practice of coaching and officiating team sports. A survey of the leading coaching methods in use for the various major sports; discussion of strategy, conditioning, technique and other coaching problems.

315. Kinesiology. 3 hrs. lect.

A. W. ERIKSSON.

A study of joint and muscle action in the balance and movement of the human body in its parts and as a whole. Emphasis is placed on learning muscle action and its co-ordination as applied to special problems in physical education.

Text-book: Wells, *Kinesiology*.

317. Preventive and Corrective Physical Education. 3 hrs. lect.

A. W. ERIKSSON.

A study of structural defects in relation to posture, habits and environment. Theory and practice of corrective and preventive exercise adapted to individual needs.

401. Organization and Administration of Physical Education. 3 hrs. lect.

M. L. VAN VLIET.

Distribution of time, equipment, facilities and staff in a comprehensive junior and senior high school program including health instruction, health service, sanitation, the required activities, intramural activities and inter-scholastic athletics.

Text-book: Williams and Brownell, *Organization and Administration of Health and Physical Education*.

407. Tests and Measurements in Health and Physical Education.

3 hrs. lect.

H. J. McLACHLIN.

Criteria for selection of tests and the place and potential use of measurement in the fields of health and physical education. Critical analysis of existing methods in physical education. Study of current tests from both practical and theoretical standpoints. Use of tests in the administration of physical activity programs.

410. Community Recreation.

1 hr. lect., 3 hrs. lab.

W. D. SMITH.

A study of the philosophy, principles and practices of recreation applied to problems of organization, administration and supervision on a local, provincial and national basis.

419. Current Practices in Health Education.

3 hrs. lect.

P. AUSTIN.

A survey of present day problems in community hygiene with special emphasis on nutrition, sanitation and preventive medicine. A study of local, provincial and national health agencies and their relation to sound health practices.

421. Organization and Administration of School Health.

3 hrs. lect.

P. AUSTIN.

A study of basic principles underlying the organization, administration and teaching techniques of the important phases of the school health program. This course emphasizes the physical aspects of health instruction, health environment and the health service. Survey of available teaching materials used in the classroom with particular emphasis on the junior and senior school level.

SPECIAL CERTIFICATION IN OPTIONAL SUBJECTS

Special certification is required for the teaching of art, commerce, dramatics, home economics, industrial arts, kindergarten-primary, music and physical education. Credits towards these special certificates may be obtained in part in the first two years of the B.Ed. program; additional credits and higher certification may be obtained by completing options of the third and fourth years. *No person shall be entitled to receive a special certificate to teach any particular subject or option of the course of studies unless he holds a valid general certificate of qualification for the appropriate grade or grades.*

In the following table all special certificates are listed together with the credit requirements and the teaching privileges associated with each.

SPECIAL CERTIFICATION

Subject	Certificate	Credits Required	Teaching Privileges
ADMINIS- TRATION	Principal's	Ed. 492 or 494. Ed. 564 (or Education 322 or 328 or other course in supervision of school subjects). Ed. 308 or 578 or approved course in Psychology. Ed. 562 or 566. Ed. 322 or 328 or other course in supervision of school subjects.	
		No special certificate is required as authorization to teach Art in Grade IX.	
ART	Junior	Ed. 251, Ed. 132.	Art 1
	Senior	Art 51, Ed. 332.	Art 2
COMMERCIAL SUBJECTS	Junior Certificate in Bookkeeping	Test* conducted by the Faculty of Education or credit in Accounting 1.	Bookkeeping 1a
	Junior Certificate in Stenography or Typewriting	Test* conducted by the Faculty of Education.	Stenography 1a Typewriting 1a
	Senior Certificate in Bookkeeping	(a) Test* conducted by the Faculty of Education.	Bookkeeping 1
		or (b) Accounting 52, Ed. 380 and Ed. 382.	Bookkeeping 2
	Senior Certificate in Stenography or Typewriting	Test* conducted by the Faculty of Education.	Stenography 1 Stenography 2 Typewriting 1 Typewriting 2
	Senior Certificate in Commercial Subjects	A senior certificate in Bookkeeping Stenography and Typewriting together with standing in Commercial Law 41, Pol. Ec. 1 and an approved course in office training.	All commercial high school subjects
DRAMATICS	Advanced Certificate in Commercial Subjects	Teacher's certificate carrying grade 12 teaching privileges together with B.Com. degree and senior certification in Stenography and Typewriting.	All commercial high school subjects
		Teachers who obtain credit in Ed. 255 may be granted a letter of approval by the Registrar, Department of Education, authorizing them to offer instruction in Grade IX.	
	Junior	Ed. 255, Drama 44.	Dramatics 1
	Senior	Ed. 236, Ed. 336.	Dramatics 2
GUIDANCE	Junior	Ed. 172, Ed. 208 or 308.	
	Senior	Ed. 478 or 578, Ed. 508, and an approved course in Psychology.	
HOME ECONOMICS	Junior	H.Ec. 11 or (H.Ec. 51 and H.Ec. 2) and H.Ec. 12.	Grades VII, VIII & IX Home Economics 1
	Senior	Two of H.Ec. 44, H.Ec. 45 & H.Ec. 46 in addition to the requirements for the Junior Certificate.	Home Economics 2
	Advanced	Teacher's certificate carrying grade 12 teaching privileges together with B.Sc. in H.Ec. degree.	Home Economics 1 Home Economics 2

*The tests in commercial subjects will be given by the Faculty of Education on the following dates during the 1950-51 session:

(a) At Edmonton on July 8 and 15, 1950.

(b) At Edmonton and Calgary on September 2, 1950, December 29, 1950, and April 21, 1951.

CERTIFICATION OF INDUSTRIAL ARTS TEACHERS

Grade of Certificate	Requirements for Certification	Teaching Validity
JUNIOR CERTIFICATE IN INDUSTRIAL ARTS	<p>(a) Credit in Ed. 141A, 241A, 142B, 242C, 242D, Ed. 360. or (b) Credit for the first and second year of the B.Ed. in Industrial Arts program.</p>	Academic subjects in Grades 7 to 11 and Industrial Arts options in Grades 7 to 11
SENIOR CERTIFICATE IN INDUSTRIAL ARTS	<p>(c) Credit as listed in paragraph (a) and in addition credit in Ed. 142E, 242F and in two of Ed. 242B, 342C, 342D or (d) Credit for the first, second and fourth years of the B.Ed. in Industrial Arts program together with credit in 342C.</p>	Academic subjects in Grades 7 to 12 and Industrial Arts options in Grades 7 to 12
ADVANCED CERTIFICATE IN INDUSTRIAL ARTS	<p>(e) Possession of a professional certificate valid in Grade 12 together with Industrial Arts credits equivalent to the shop courses of the B.Ed. in Industrial Arts program (10½ courses) or (f) Successful completion of the regular four-year B.Ed. course in Industrial Arts.</p>	Academic subjects in Grades 7 to 12 and Industrial Arts options in Grades 7 to 12
SPECIALIST JUNIOR CERTIFICATE IN A UNIT SHOP SUBJECT, the fields being: Mechanical Drawing Woodwork Electricity Metal Work Automotives	<p>(g) Possession of Journeyman's Qualifications and credit for one year's work in six approved courses (exclusive of Health and Physical Education) in the Faculty of Education, University of Alberta. or (h) Graduation from a two year course in the field of specialization at the Provincial Institute of Technology and Art and credit for one year's work in the Faculty of Education as in (g) and completion of three summers' work in industry (ten months' minimum).</p>	Academic subjects in Grades 7 to 11 and Unit Shop options in the field of specialization up to Grade 11

<p>SPECIALIST SENIOR CERTIFICATE IN A UNIT SHOP SUBJECT, the fields being: Mechanical Drawing Woodwork Electricity Metal Work Automotives</p>	<p>(i) As in (g) and in addition credit in a second year's work at the Faculty of Education (six approved courses exclusive of Health and Physical Education) or (j) As in (h) supplemented by credit for a second year's work in approved courses in the Faculty of Education.</p>	<p>Academic subjects in Grades 7 to 12 and Unit Shop options in the field of specialization up to Grade 12</p>
<p>SPECIALIST ADVANCED CERTIFICATE IN A UNIT SHOP SUBJECT, the fields being: Mechanical Drawing Woodwork Electricity Metal Work Automotives</p>	<p>(k) The B.Ed. degree in Industrial Arts regular four-year program with substitution in the third year of 3½ credits in the field of specialization together with fifteen months' industrial experience in the field of specialization or (l) As in (i) or (j) supplemented by completion of a third year of training in the Faculty of Education.</p>	<p>Academic subjects in Grades 7 to 12 and Unit Shop options in the field of specialization up to Grade 12</p>

A candidate who does not meet exactly the requirements of trade training or the two-year course of training at the Provincial Institute of Technology and Art with prescribed summer experience may enroll in the Faculty of Education in candidacy for the Junior Diploma in Unit Shop subjects if the Evaluations Committee of the Board of Teacher Education and Certification rules that his training is equivalent to that prescribed for other candidates.

Subject	Certificate	Credits Required	Teaching Privileges
KINDERGARTEN- PRIMARY	Kindergarten	Ed. 124, Ed. 172, Ed. 324, Ed. 424.	
	Primary	Ed. 124, Ed. 172, Ed. 224, Ed. 324.	
No special certificate is required as authorization to teach Music in Grade IX.			
MUSIC	Junior	Ed. 253, Music 41.	Music 1
	Senior	Music 51, Music 45.	Music 2
PHYSICAL EDUCATION	Junior	P.E. 100, P.E. 103, Activity Lab.	Phys Ed. 1
	Senior	P.E. 401, P.E. 410, Activity Lab.	Phys. Ed. 2

- NOTE:—1. Until further notice no special certificate will be required for the teaching of Art 1 or Physical Education 1.
2. Teaching privileges granted under certificates issued prior to September 1, 1945, are not affected by the new regulations set forth above.
3. Students may be required to include a two-hour per week laboratory as part of Music 41.
4. Students who are admitted to and obtain credit in Music 51, after being excused from Music 41, may be given credit in Music 41 for purposes of certification only.

REGULATIONS GOVERNING CERTIFICATION OF TEACHERS**Effective July 3, 1950**

GOVERNMENT OF THE PROVINCE OF ALBERTA
 THE DEPARTMENT OF EDUCATION ACT, R.S.A. 1942
 (Order in Council No. 70-50)

A teacher's Certificate shall not be issued to any person who is not a British subject.

In these Regulations the words "An Inspector of Schools" shall be held to include the Chief Superintendent of Schools, a High School Inspector, a Superintendent of a School Division or any officer of the Department who is instructed to inspect or supervise the work of teachers.

PART A (GENERAL CERTIFICATES)

1. (a) Except as otherwise provided herein, the certificates issued hereafter by the Minister of Education shall be of the following classes:

Standard E Certificate,
 Standard S Certificate,
 Professional Certificate.

- (b) The Minister may also issue Temporary Licenses.

2. (a) The range of school grades throughout which each of the teachers' certificates mentioned in 1(a) is a valid license to teach is shown in the following schedule:

Certificates	Grades
Professional Certificate	I-XII
Standard S	IV-XI
Standard E	I-IX

- (b) A Temporary License shall be valid for the teaching of grades I-IX inclusive.
3. (a) A person who has completed satisfactorily an approved first year programme of the University of Alberta prescribed for teachers of the elementary and junior high school grades, may be granted a Temporary License valid for two years. This license may be extended one year for each successfully completed Summer Session's work in approved courses leading to the Standard E or the Standard S Certificate.
- (b) The holder of a Temporary License may qualify for a permanent Standard E or Standard S Certificate by completing the following requirements:
 - (i) Successful teaching experience of two years in Alberta schools.
 - (ii) A recommendation from an Inspector of Schools.
 - (iii) Successful completion of the second year of a B.Ed. program.
4. (a) A person who has completed satisfactorily the first two years of the B.Ed. programme of the University of Alberta prescribed for teachers

of elementary and junior high school grades may be granted in Interim Standard E Certificate, valid for three years.

- (b) The Interim Standard E Certificate may be made permanent when the following requirements have been satisfied:
 - (i) Successful teaching experience of two years.
 - (ii) A recommendation from an Inspector of Schools.
- 5. (a) A person who has completed satisfactorily the first two years of the B.Ed. programme of the University of Alberta prescribed for teachers of the high school grades may be granted an Interim Standard S Certificate, valid for three years.
- (b) The Interim Standard S Certificate may be made permanent when the following requirements have been satisfied:
 - (i) Successful teaching experience of two years in Alberta schools.
 - (ii) A recommendation from an Inspector of Schools.
- (c) Any teacher who, after one year of training in the programme prescribed for teachers of the elementary and junior high school grades, transfers to the second year of the programme prescribed for teachers of the high school grades, will be required to complete two additional approved courses of the B.Ed. programme.
- 6. (a) A person who has completed satisfactorily three years of the B.Ed. programme of the University of Alberta prescribed for teachers of the elementary and junior high school grades or of the high school grades may be granted an Interim Professional Certificate.
- (b) The Interim Professional Certificate may be made permanent when the following requirements have been satisfied:
 - (i) Successful teaching experience of two years in Alberta.
 - (ii) A recommendation from an Inspector of Schools.
- 7. The requirements for a permanent certificate may be waived in the case of a teacher qualifying for any certificate, provided that he previously held an Alberta permanent certificate of another class.
- 8. (a) The holder of a bachelor's degree acceptable to the Minister may be granted an Interim Standard E or an Interim Standard S Certificate upon completion of one year's approved work in the Faculty of Education, and may be granted an Interim Professional Certificate upon completion of two further approved courses, being one summer session's work or its equivalent; and the holder of an acceptable honours' degree or a Master's degree may be granted an Interim Professional Certificate upon completion of one year's approved work at the Faculty of Education.
- (b) Such Interim Certificates may be made permanent when the following requirements have been satisfied:
 - (i) Successful teaching experience of two years in Alberta.
 - (ii) A recommendation from an Inspector of Schools.

PART B—EXISTING CERTIFICATES

9. The holder of a certificate issued under former regulations may, upon application to the Minister, exchange it for a new Certificate as indicated in the following table:

Table of Certificate Ratings

<i>Certificates named in O.C. No. 883-46 or in former Regulations.</i>	<i>Equivalent Certificates</i>
Senior Elementary and Intermediate School Certificate	Standard E.
Junior Certificate for the High School	Standard S
High School Certificate	Professional
First Class Certificate	Standard E and Standard S (with teaching privileges extended to include grade XII).
Academic Certificate	Professional.
First Class Certificate with Bachelor's degree	Professional.

10. Junior Elementary and Intermediate School Certificates shall remain in effect until they expire. They shall not be extended but may, if it is deemed necessary by the Minister, be succeeded by Temporary Licenses. The holders thereof shall be entitled to teach Grades I to IX inclusive.

11. Elementary and Intermediate School Certificates shall remain in effect unless and until they expire, or until they are replaced by Standard Certificates. The holders thereof shall be entitled to teach Grades I to X inclusive.

12. Permanent Second Class Certificates shall remain in effect, but the holders thereof may be granted Elementary and Intermediate School Certificates upon the completion of at least one approved Summer Session of work, taken either before or after the coming into effect of these regulations, and if recommended by an inspector of schools. The holders of Second Class Certificates, either interim or permanent, shall be entitled to teach Grades I to IX inclusive.

13. Existing interim certificates may be made permanent in the manner provided by the regulations in effect immediately heretofore, namely:

- (i) Two years' teaching experience in Alberta schools.
- (ii) After teaching experience of one year, attendance at one summer school session, or more, in Alberta or elsewhere, with satisfactory attainment in approved courses.
- (iii) A recommendation from an Inspector of Schools.

14. The Minister may, with respect to existing certificates, take such further action as he may deem necessary, providing such action is not inconsistent with these regulations.

PART C (SPECIAL CERTIFICATES)

This Part shall apply to all teachers irrespective of date of commencement of professional training.

15. The Minister may grant a Special Certificate in one or more of the following subjects of the junior high or high school programme to a teacher who holds a

general certificate of appropriate class—Art, Dramatics, Music, Bookkeeping, Stenography, Typewriting, Commercial Subjects, General Shop and Shop Subjects (or Industrial Arts), Unit Shop, Home Economics, Physical Education, Guidance and Principal's or Supervisor's Certificate. The courses for a special Certificate shall be prescribed by the Minister and may be taken as part of the regular training for a general certificate or at a summer school in Alberta, or elsewhere, by permission of the Minister.

16. Special Certificates may be of three grades, Junior, Senior and Advanced.

17. The Minister may grant a Kindergarten or Primary or a Kindergarten-Primary Certificate, and prescribe the training required for such certificate.

18. With respect to any of the subjects mentioned in Section 15, the Minister may require that a teacher offering instruction in such subject or subjects, in addition to holding a general certificate acceptable for teaching the subject in question, shall also hold a Special Certificate of a prescribed grade. Provided that the holder of a certificate valid in grades one to nine with suitable training may be authorized by the Minister to offer instruction in Industrial Arts and in Home Economics in grades ten and eleven, such authorization to be valid for a year at a time only.

PART D

This Part shall apply to all teachers irrespective of date of commencement of professional training.

19. Anything in Parts A and B of these Regulations to the contrary notwithstanding, the Minister shall, in his discretion, have the power:

- (a) To extend, reinstate or revive any teacher's certificate now or formerly valid in Alberta, whether current or expired, as the case may be, on such terms or conditions as may to him seem necessary and proper.
- (b) To issue Letters of Authority to persons of suitable professional and academic attainments not otherwise qualified for teachers' certificate under these Regulations, on such terms and conditions as to him may seem necessary and proper, such Letters of Authority to have the effect of teachers' certificates within the meaning of Section 164 of The School Act. Provided, however, that such Letters of Authority shall not be valid as licenses to teach in grades above the ninth, except with respect to vocational subjects of the high school.
- (c) To extend the range of grades which may be taught by the holder of any certificate.

20. (a) No certificate shall expire during any period throughout which the holder is in attendance at any approved university or college for the purpose of improving his qualifications for teaching.
- (b) Every interim certificate shall continue in effect for an additional period of one year for each approved summer session of work completed by the holder thereof.

21. The Minister may accept, in lieu of work undertaken at the University of Alberta, equivalent work undertaken at other approved institutions.

22. The Minister may, in his discretion, grant an interim certificate of any class to any person who holds a valid teaching certificate or diploma not obtained in Alberta and whose academic and professional qualifications are acceptable to him, and he may prescribe the amount or extent of additional professional or academic training or standing, if any,, requisite for obtaining such certificate.

ONE-YEAR PROGRAM, 1950-51

HOOR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 a.m.	A Ed. 172 B Ed. 121 C P.E. 100(1) D Ed. 127(2) E Ed. 138 F Ed. 172 G Ed. 127(1) H Ed. 172 H P.E. 100(2)	A Ed. 121 B Ed. 172 C Ed. 151(1) D Ed. 205(2) E Ed. 129(1) F Ed. 127(2) G Ed. 151(2) H Ed. 129(2)	A Ed. 172 B P.E. 100(1) C P.E. 100(2) D Ed. 138 E Ed. 172 F Ed. 127(1) G Ed. 172 H Ed. 127(1) H P.E. 100(2)	A Ed. 121 B Ed. 172 C Ed. 151(1) D Ed. 205(2) E Ed. 129(1) F Ed. 127(2) G Ed. 151(2) H Ed. 129(2)	A Ed. 172 B Ed. 121 C P.E. 100(1) D Ed. 127(2) E Ed. 138 F Ed. 172 G Ed. 127(1) H Ed. 172 H P.E. 100(2)	A E. 121 B Ed. 172 C Ed. 151(1) D Ed. 205(2) E Ed. 129(1) F Ed. 127(2) G Ed. 151(2) H Ed. 129(2)
9 a.m.	A P.E. 100(1) B P.E. 100(2) C P.E. 100(1) D P.E. 100(2) E Ed. 121 F Ed. 127(1) G Ed. 172 H Ed. 138 H Ed. 172	A Ed. 151(1) B Ed. 127(2) C Ed. 129(1) D Ed. 172 E Ed. 138 F Ed. 133(1) G Ed. 151(2) H Ed. 129(2)	A P.E. 100(1) B P.E. 100(2) C P.E. 100(1) D P.E. 100(2) E Ed. 121 F Ed. 127(1) G Ed. 172 H Ed. 138 H Ed. 172	A Ed. 151(1) B Ed. 127(2) C Ed. 129(1) D Ed. 172 E Ed. 138 F Ed. 133(1) G Ed. 151(2) H Ed. 129(2)	A P.E. 100(1) B P.E. 100(2) C P.E. 100(1) D P.E. 100(2) E Ed. 121 F Ed. 127(1) G Ed. 172 H Ed. 138 H Ed. 172	A Ed. 151(1) B Ed. 127(2) C Ed. 129(1) D Ed. 172 E Ed. 138 F Ed. 133(1) G Ed. 151(2) H Ed. 129(2)
10 a.m.	A E. 138 B Ed. 153(2) C Ed. 129(1) D P.E. 100(2) E P.E. 100(1) F Ed. 121 G Ed. 138 H Ed. 121 H Ed. 153(1) H Ed. 129(2)	A Ed. 129(1) B Ed. 151(1) C Ed. 127(2) D Ed. 138 E Ed. 205(2) F Ed. 205(1) G Ed. 138 H Ed. 121 H Ed. 127(1) H Ed. 151(2)	A Ed. 138 B Ed. 153(2) C P.E. 100(2) D P.E. 100(1) E Ed. 121 F Ed. 138 G Ed. 129(2) H Ed. 153(1) H Ed. 129(2)	A Ed. 129(1) B Ed. 151(1) C Ed. 127(2) D Ed. 138 E Ed. 205(2) F Ed. 205(1) G Ed. 138 H Ed. 121 H Ed. 127(1) H Ed. 151(2)	A Ed. 138 B Ed. 153(2) C P.E. 100(1) D P.E. 100(1) E Ed. 121 F Ed. 138 G Ed. 129(2) H Ed. 153(1) H Ed. 129(2)	A Ed. 129(1) B Ed. 151(1) C Ed. 127(2) D Ed. 138 E Ed. 205(2) F Ed. 205(1) G Ed. 138 H Ed. 121 H Ed. 127(1) H Ed. 151(2)

11 a.m.	A Ed. 153(2) Ed. 138 P.E. 100(1) P.E. 100(2) P.E. 100(1) P.E. 100(2) Ed. 153(1) Ed. 121	314 118 134 Gym Gym 134 314 310	Ed. 105 for all one- year students	A Ed. 153(2) Ed. 138 P.E. 100(1) P.E. 100(2) P.E. 100(1) P.E. 100(2) Ed. 153(1) Ed. 121	314 118 134 Gym Gym 134 314 310	Assembly for all one- year Classes	Aud.	A Ed. 153(2) Ed. 138 P.E. 100(1) P.E. 100(2) P.E. 100(1) P.E. 100(2) Ed. 153(1) Ed. 121	314 118 134 Gym Gym 134 314 310
1 p.m.	A Ed. 161(1) Ed. 161(1) Ed. 153(2) Ed. 151(1) P.E. 100(2) Ed. 153(1) Ed. 161(2) Ed. 205(1) Ed. 161(2) P.E. 100(1) P.E. 100(2) P.E. 100(1)	310 308 314 302 134 314 310 306 308 134 Gym Gym	AB Ed. 159 Ed. 205(2)	A Ed. 161(1) Ed. 161(1) Ed. 153(2) Ed. 151(1) P.E. 100(2) Ed. 153(1) Ed. 161(2) Ed. 205(1) Ed. 161(2) P.E. 100(1) P.E. 100(2) P.E. 100(1)	310 308 314 302 134 314 310 306 308 134 Gym Gym	EF Ed. 159 Ed. 205(2)	301 306	A Ed. 161(1) Ed. 161(1) Ed. 153(2) Ed. 151(1) P.E. 100(2) Ed. 153(1) Ed. 161(2) Ed. 205(1) Ed. 161(2) P.E. 100(1) P.E. 100(2) P.E. 100(1)	310 308 314 302 134 314 310 306 308 134 Gym Gym
2 p.m.	A Ed. 205(2) Ed. 161(1) Ed. 153(2) Ed. 205(1) Ed. 161(2) Ed. 205(1) Ed. 161(2)	306 134 302 314 306 134 314 302	CD Ed. 159	A Ed. 205(2) Ed. 161(1) Ed. 153(2) Ed. 153(2) Ed. 205(1) Ed. 161(2) Ed. 205(1) Ed. 161(2)	306 134 302 314 306 134 314 302	GH Ed. 159 Ed. 205(2)	301 306	A Ed. 205(2) Ed. 161(1) Ed. 153(2) Ed. 205(1) Ed. 161(2) Ed. 205(1) Ed. 161(2)	306 134 302 314 306 134 314 302
3 p.m.	G Ed. 151(2)	302		G Ed. 151(2)	302	G Ed. 151(2)		G Ed. 151(2)	302

KEY: (1) and (2) after course refers to first and second term.

THE BACHELOR OF EDUCATION PROGRAM, 1950-51

HOOR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 a.m.	Q Ed. 138(a) Eng. 64	Q Ed. 138(b) R Ed. 253(2) S Ed. 314	Q Ed. 138(a) Chem. 40 lab. C H.Ec. lab. Eng. 64	Q Ed. 138(b) R Ed. 253(2) S Ed. 314	Q Ed. 138(a) Eng. 64	Q Ed. 138(b) P.E. 201(2) R Ed. 253(2) S Ed. 314
9 a.m.	Nurses Ed. 375(1) S Ed. 492(a) French 2 Math. 40 lab. Annex	Q P.E. 100(a)(1) S Ed. 492(b) P.E. 201(2) H.Ec. 11 History 5 French 40 Math. 40 Chem. 40 Phys. 40	Nurses Ed. 375(1) S Ed. 492(a) French 2 Chem. 40 lab. C H.Ec. 11 lab. S238	Q P.E. 100(a)(1) S Ed. 492(b) H.Ec. 11 History 5 French 40 Math. 40 Chem. 40 Physics 40	Nurses Ed. 375(1) S Ed. 492(a) French 2 Phys. 40 lab. A19-32	Q P.E. 100(a)(1) P.E. 201(2) Ed. 492(b) H.Ec. 11 History 5 French 40 Math. 40 Chem. 40 Physics 40
10 a.m.	Q Ed. 176(a) Q Ed. 176(b) P.E. 202 R Ed. 251(1) S Ed. 376(a) Math 40 lab. Annex	Q Ed. 34 Q P.E. 100(b)(1) Q P.E. 100(c)(2) P.E. 102 R Ed. 255(2) S Ed. 376(b)	Q Ed. 176(a) Q Ed. 176(b) P.E. 202 R Ed. 251(1) S Ed. 376(a) Chem. 40 lab. C H.Ec. 11 lab. S238	Q Ed. 34 Q P.E. 100(b)(1) Q P.E. 100(c)(2) P.E. 102 R Ed. 255(2) S Ed. 376(b)	Q Ed. 176(a) Q Ed. 176(b) P.E. 202 R Ed. 251(1) S Ed. 376(a) Phys. 40 lab. A19-32	Q Ed. 34 Q P.E. 100(b)(1) Q P.E. 100(c)(2) P.E. 102 R Ed. 255(2) S Ed. 376(b)
11 a.m.	Q Ed. 176(c) Ed. 280 Ed. 380	R P.E. 100(c)(1) R P.E. 100(d)(2) R Ed. 262(a) Ed. 280	Q Ed. 176(c) Ed. 280 Ed. 380	Q Assembly R P.E. 100(c)(1) R P.E. 100(d)(2) R Ed. 262(a) Ed. 280	Q Ed. 176(c) Ed. 280 Ed. 380	R P.E. 100(c)(1) R P.E. 100(d)(2) R Ed. 262(a) Ed. 380

1 p.m.	QR Ed. 124 or Ed. 224 Gr Ed. 576	136 132 108	Q P.E. 100(a)(1) Q P.E. 100(b)(2) S Ed. 308 S Ed. 312	134 134 310 108	QR Ed. 124 or Ed. 224 Gr Ed. 576	136 132 108	Q P.E. 100(a)(1) Q P.E. 100(b)(2) S Ed. 308 S Ed. 312	134 134 310 108	QR Ed. 124 or Ed. 224 Gr Ed. 576	136 132 108
2 p.m.	Ed. 180 R Ed. 224 or Ed. 324 R Ed. 262(b)(1) R Ed. 262(c)(2) Gr Ed. 578	310 136 301 301 132	Q P.E. 100(a)(1) Q P.E. 100(b)(2) S Ed. 308 S Ed. 312	134 134 310 108	Ed. 180 R Ed. 224 or Ed. 324 R Ed. 262(b)(1) R Ed. 262(c)(2) Gr Ed. 578	310 308 136 301 301 132	Q P.E. 100(a)(1) Q P.E. 100(b)(2) S Ed. 308 S Ed. 312	310 108	Ed. 180 R Ed. 224 or Ed. 324 R Ed. 262(b)(1) R Ed. 262(c)(2) Gr Ed. 578 Ed. 282	310 308 136 301 132 Aud
3 p.m.	Ed. 180 R Ed. 262(b)(1) R Ed. 262(c)(2) Gr Ed. 572B	308 310 301 306			Ed. 180 R Ed. 262(b)(1) R Ed. 262(c)(2) Gr Ed. 572B	308 310 301 306			Ed. 180 R Ed. 262(b)(1) R Ed. 262(c)(2) Gr Ed. 572B Ed. 282	308 301 301 306 Aud

KEY:

Q—First year B.Ed.

R—Second year B.Ed.

S—Third and fourth year B.Ed.

Gr—Graduate.

†—B.Ed. in Physical Education.

(1) and (2) after course refers to first and second term.

(a), (b), etc., after course refers to class section.

